



**2021 PRESIDENT'S ANNUAL REPORT
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PRESIDENT’S LETTER

Dear Friends and Supporters of City College,

I’m pleased to present the Annual Report of the City College of New York. Over the past year, despite the pressures and anxieties visited upon us all by the pandemic, we have worked to build on the capabilities, achievements and potential of our college. The pandemic, for all the difficulties it posed to our work, also offered us a chance to return to our core values and to think about our place in the landscape of New York institutions, and in the pantheon of higher education institutions.

We’ve had some recent help in getting that perspective on our work. This fall, the Wall Street Journal ranked CCNY the #1 college in the nation in its “Best Value” category. That positioning typifies what we’ve always set out to accomplish: placing the best education possible within reach of the whole people. Inside, you’ll read a fuller account of how we did this year in the national rankings. The record shows a college that is steadily, and in some cases dramatically improving its standing and reputation.

So, while we labored to return to some sort of normal footing, we also grew in other ways. At the center of one element of this growth is the emergence of what I’m calling the CCNY “innovation ecosystem.” This ecosystem is composed of a network of programs, maker spaces, labs and initiatives designed to support the development and deployment of CCNY-based innovations into social use. Knitting together projects like the Zahn Innovation Center, the Masters in Translational Medicine and various experiential learning centers on campus, the innovation ecosystem is designed both to support innovations from students, faculty and off-campus partners, and to develop those innovations into socially

useful or commercially viable concerns. The initiative pivots on two realizations. First, while we had a number of emergent efforts to teach entrepreneurship to our students, the campus itself did not make the development of innovations from the entire campus community a priority. Second, many of the smaller grant and philanthropy funded innovations projects operated in isolation from one another and, therefore, at a smaller scale than was optimal. This year, in ways you’ll see in this report, we began to organize these efforts as part of a stronger campus strategy.

The pandemic compelled us to revisit our conceptualization of and efforts in support of student success. In obvious ways, the pandemic called on us to recognize that students suffering a crisis of need cannot be expected to excel. Virtually every crisis our students encounter pose the threat of becoming a financial crisis, and soon a crisis of their ability to stay in school. Because so many of you contributed generously to the college, we were able to offer more emergency grants than ever before – upwards of \$1.5 million. These awards are notable because emergency grants keep our students in school. Over these many months, we have seen student after student fall into crisis as so many of them prioritize paying their tuition bills in preference to things like rent or medical supplies. We also expanded our food pantry services and our healthcare facilities.

In the process, however, we began developing a fuller definition of what we can do to support students, ranging from expanding the number of internship and leadership opportunities we offer students, to setting goals for the expansion of advising and planning services for students.

Advising is a key element of this, but so is career planning. The idea of a college’s responsibility for its students’ success used to end at the graduation stage. Today, we are learning more and more that we must develop a stronger interest in what happens once a student graduates, and make

the college more responsive to the needs of the workforce. In that pursuit, we recently received a powerful new tool—a dataset commissioned by the EMSI group of 26,000 CCNY graduates dating back 50 years. This data traces, student by student, as well as in aggregate, the career paths from a CCNY alum’s major, through to their first, second, and third jobs — and beyond. We’re now able to tell students what graduates from any particular major have done with their degrees, and to then build back into our students’ preparation the training they will need to succeed in the most likely career paths that lie before them. We can, moreover, identify companies with clusters of CCNY graduates, and so work to link those companies to the college via recruitment pipelines, internship relationships, and the like. This is data we’ve never had before, and it will change our work in fundamental ways.

There’s a lot more to tell you about, and this report delves into the activity and accomplishments of every school and division of the campus. But I hope one thing will be clear to anyone who reads this report. There are several ways to approach the kind of crisis we’ve all been living through these past months. We decided, early on, that we would take the moment of our society’s greatest collective need as an opportunity to map out how our college’s work and mission can be most responsive to the needs of our recovery. We have chosen to build new initiatives, strengthen our foundation, and rededicate ourselves to our mission. We know, in taking this path, that we have many allies and supporters, and I’m deeply grateful to count you all among them.

Sincerely,

Vince Boudreau
President



PROVOST'S LETTER

Dear Colleagues and Friends,

Resiliency. It's a word that describes how we bounce back, stronger than ever, from a setback. We use it to describe the properties that new structures and systems that we build must have to survive the challenges of climate change. We use it to describe individuals who persevere after personal setbacks. As we enter what looks like an endemic phase of the pandemic, it is the best descriptor I can find for the spirit of the faculty, staff and students that make up City College. Last year I began my letter discussing how challenging a year it had been, and I could easily do that again, but what is really remarkable about year two of the pandemic is the resiliency that our campus community has shown in dealing with all of the challenges that have come our way.

After suddenly moving our entire curriculum online in March 2020, we have begun gradually to move back towards in-person instruction. As of Fall 2021, about 30% of our classes have an in-person component. Most of those are hybrid classes, which have a mixture of online and in-person classes. It has been great to see students on campus again, and they have been as excited to be here as we are to have them. In Spring 2022, we will make a big leap to 70% fully in-person classes. I am very excited about returning to near-normal campus life.

It can be hard to find an upside to the past 22 months, but one is, definitely, that in early 2020 we were a college with virtually no significant online presence for either instruction or business services. There were some pockets, notably at CCNY's Division of Interdisciplinary Studies at 25 Broadway, which had expertise in online instruction but, as a college, we had almost no online options. We are now in a completely different place. Rather than planning a return to 100% in-person instruction next fall, we are beginning to think about what part of our curriculum should remain online in order

to best serve our students. The Division of Interdisciplinary Studies already has a completely online degree option, but what can we do in the rest of the College to help students succeed?

One possibility is to expand our evening options so that working students could take classes without the trek to and from campus at night, and faculty teaching those courses would not have to stay late on campus. As we move into the next academic year, my goal is to have a subset of classes still delivered online, but chosen carefully to fit student needs with instructors who are talented in online modality.

In addition to the curriculum, many of the student services, from admissions to financial aid to advising are now available through face-to-face interactions online, services we intend to continue to provide, post-pandemic.

Although laboratory research on campus struggled through the early days of the pandemic, when labs were shut down and eventually re-opened with very limited occupancy, it has proved resilient as well. As the campus has reopened, we are now up to 75% occupancy in research labs. Funded research on campus has in fact had a banner year, with research expenditures hitting \$62 million – the most in at least seven years. The level of funded research on campus makes us unique in CUNY, and provides unmatched opportunities for our students.

Our strength lies not just in our STEM programs but in the breadth of research and creative work that goes on all over campus. Many of those fields have had a rougher time as book publishing has slowed to a crawl and creative spaces for exhibitions and performances have closed. But as places begin to reopen and people get vaccinated and return to workplaces, our colleagues in fields that depend on these activities have shown the same resilience as the campus as a whole.

A new semester brings new faces to campus and old faces in new roles. I am thrilled to welcome

Dr. Carmen Green as the new Dean of the CUNY School of Medicine at City College. Dr. Green, a specialist in pain medicine, joined us in October from the University of Michigan Medical School.

This past year saw the departure of the Dean of Humanities & Arts, Erec Koch, who retired in August. In his place I am happy to welcome Interim Dean Renata Miller, who steps into the role after serving as Dean Koch's Associate Dean.

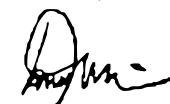
Last year I mentioned that Edwin Lamboy had stepped into the role of Interim Dean of Education, and I am happy to report that he is now the permanent Dean of Education.

Brad Horn had stepped in a year ago as Interim Dean of the Spitzer School of Architecture. After postponing his sabbatical for a year to take that role, Brad stepped down in August, and I am happy to welcome Interim Dean Marta Gutman in his place.

Searches for permanent Deans for Architecture and the Grove School of Engineering, where Alex Couzis serves as Interim, are well under way. We have begun the search for a permanent Chief Librarian after Chip Stewart's retirement last year, with Daisy Dominguez serving as Interim Chief.

The old phrase "When you're knocked down, you have to get right back up again" is just another way of describing resiliency. I would not go so far as to say that we've been knocked down, because the College never missed a beat. Through it all, we never stopped delivering for our students. But we have certainly been knocked around a bit these past 19 months and I could not be more proud of the way we have responded as a community.

Sincerely,



Tony Liss
Provost



FOUNDATION'S LETTER

Dear Colleagues and Friends,

Over the past 22 months, I have had many reasons to write update letters to our extended City College family and even more opportunities to help prepare updates for colleagues across the national higher education landscape. One thing that has served as a rallying point around the work we do at City is the hope that we focus less of our narrative on the pain points that working during a pandemic has highlighted, but instead that we focus on the extraordinary work being done here, and across the world, to keep our family and loved ones safe while still doing the 'normal' things we were accustomed to doing before Covid-19.

It is relatively easy to say how hard it has been, and how different the landscape across our campus has been. We were not a system that was well-prepared to move almost 90% of our workforce and 100% of our students to a remote posture over just a few days in March 2020. And, while the early moves we made were done to ensure that our students and colleagues could be as safe as possible, what we also learned was that there were new ways in which we could collaborate in supporting New York City as it saw the tremendous impact Covid-19 would have on every corner of our city.

The Foundation for City College, and the Office of Institutional Advancement and Communications have spent the last year

rebuilding, in many ways, the way we work to support the College. Having completed the merger between the former City College Fund and 21st Century Foundation in December 2019, we spent all of 2020 reorganizing our teams, hiring new colleagues in line with our five-year strategic plan and moving through the various due-diligence stages needed to complete our state and federal incorporations and registration, launch an updated Board of Directors, and have focused a lot of our work on the updates required to bring online half a million new records - primarily all alumni contacts - that were historically not managed by the College.

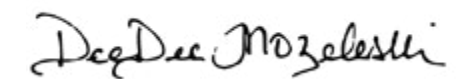
I often share that one of the truest measures of the work we do cannot be told in numbers, but I also recognize that being able to assess where we are, and where we envision going requires factual touchstones. The numbers about City College tell a story that is impressive in many ways, including how connected we are today to our founding mission. During the period covered under this report, we have, as a team, allocated more than \$6.5 million in student scholarships and awards; planted eight new garden plots in support of our Campus Engagement Network and Benny's Food Pantry; distributed more than 5,000 pounds of food through Benny's, allocated more than \$3 million in emergency needs support, including covering urgent student requests for housing assistance, tuition relief and emergency medical needs. Our public presence numbers show the same commitment and connection. Every day we speak with people from across the world who only know of City College through reading our

published materials, and the inspiration they take away is always the same. They come to us animated by the conviction that New York City, indeed American society, needs City College to flourish.

The team assembled to do this work is made up of dedicated professionals who see in every interaction a chance to ensure that each student at City College has every opportunity to succeed and that the work of our faculty and staff might continue in their important work in service of the 'whole people.'

I hope that as you read through the pages of this report, as you visit campus for events, and as you stay connected to the work we all do together, that you will share in the pride of knowing that this work continues only because of the partnership you have chosen to embrace with City College.

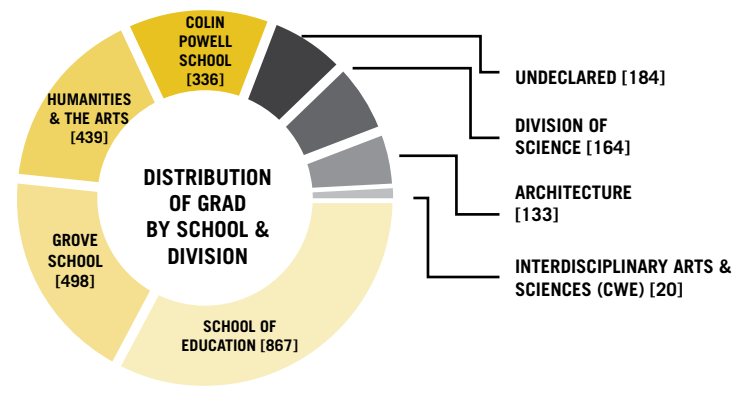
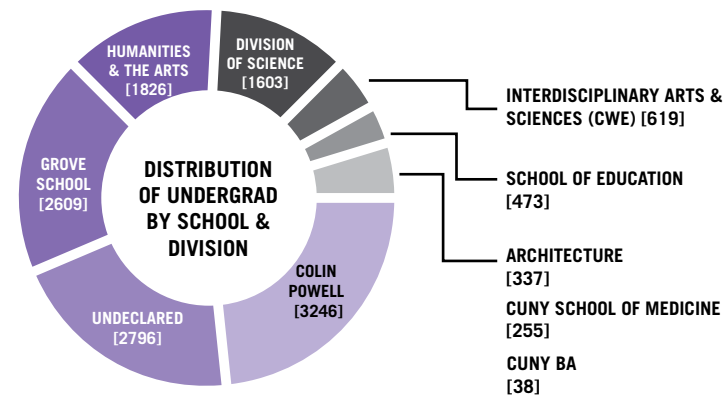
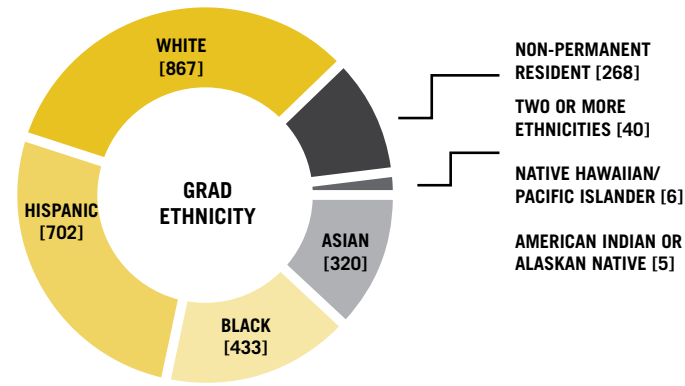
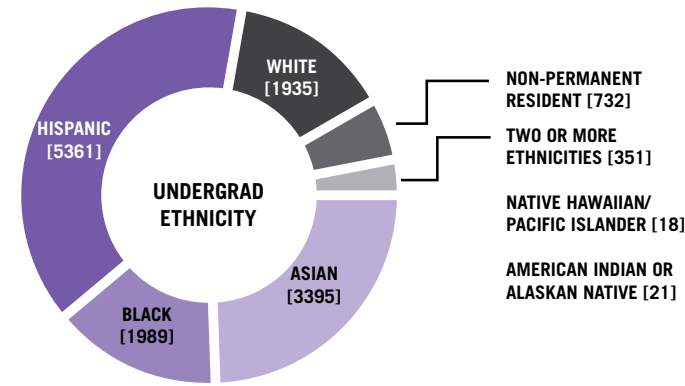
Sincerely,



Dee Dee Mozeleski
Senior Advisor to the President &
Vice President and Executive Director
The Foundation for City College

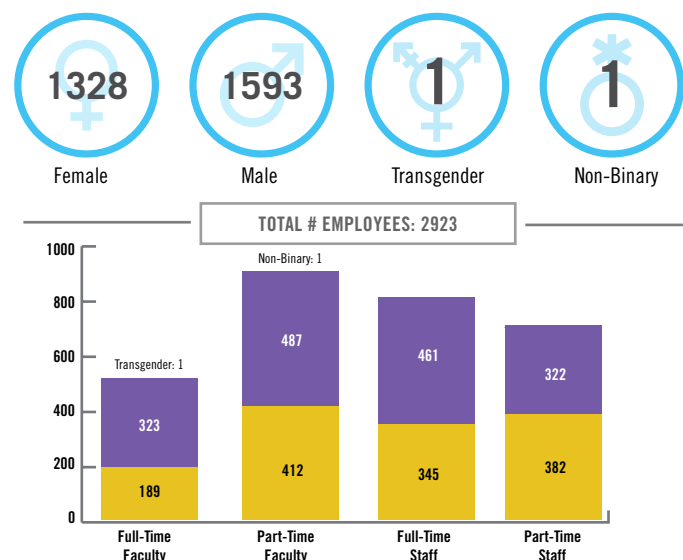
STUDENT BODY TOTAL # STUDENTS **16,443**
(AS OF SPRING 2021)

UNDERGRAD 13,802 **GRAD 2,641** } **MASTERS: 2,124**
PHD: 216



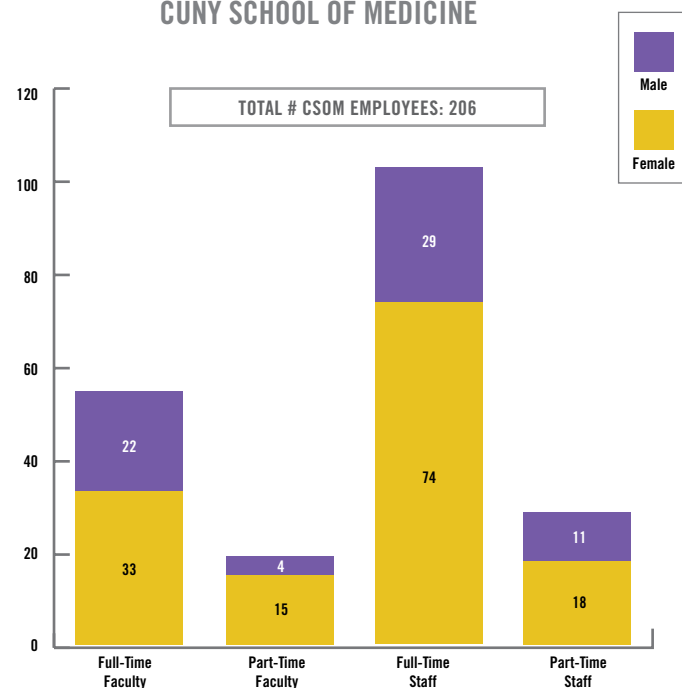
Source: CUNY Census data (Based on head count)

EMPLOYEE BREAKDOWN



Source: CCNY HR data extracted on Aug. 2021

CUNY SCHOOL OF MEDICINE



City College Surges Ahead in the 2022 "U.S. News & World Report" Rankings

"U.S. News & World Report" defines schools in the National Universities category as those offering a full range of undergraduate majors, plus master's and doctoral programs, committed to producing groundbreaking research.

Best Graduate Schools



The Grove School of Engineering is now ranked #127 among "U.S. News & World Report's Best Graduate Schools." The only public school of engineering in the metropolitan area climbs two places this year on the list of 221 elite graduate engineering programs in the "U.S. News & World Report" 2022 rankings.

"U.S. News & World Report" also ranks five other City College programs among the best nationally:

- Physician Assistant Program, CSOM remains at #46
- Fine Arts in the Division of Humanities and the Arts #64
- Clinical Psychology, CPS #101
- Public Affairs, CPS # 123
- Psychology, CPS #148

Each year, "U.S. News & World Report" ranks professional school programs in business, education, engineering, law, medicine and nursing, including specialties in each area. The "Best Graduate Schools" rankings are based on two types of data—expert opinions about program excellence and statistical indicators that measure the quality of a school's faculty, research and students. The data for the rankings in all six disciplines came from statistical surveys of more than 2,125 programs and from reputation surveys sent to more than 23,000 academics and professionals, conducted in fall 2020 and early 2021.

Best Colleges

The City College of New York is ranked #148 in Best National Universities on the 2022 list of "U.S. News & World Report Best Colleges," a jump of 28 places from its #176 ranking in 2021. The school also placed #67 in the category of Top Public Schools, moving up 20 spots from #87 last year. In the category of Social Mobility - National Universities, City College jumped seven places to #10 compared with placing #17 in 2021.

The following is how CCNY fares in the annual evaluation of America's top degree-granting schools:

- Social Mobility - National Universities, #10, tied with 10 other schools, including George Mason University, Rutgers-Newark and University of Alabama
- Economic Diversity - National Universities, #26
- Campus Ethnic Diversity - National Universities, #29, with a 0.72 Diversity Index and 38% majority Hispanic student population
- Best Colleges for Veterans – National Universities, #86, tied with 12 others including Carnegie Mellon University, Rutgers-Camden and George Mason
- Top Public Schools - National Universities, #67, tied with 10 other schools, including George Mason, Rutgers-Newark, and University of Alabama
- Best Undergraduate Computer Science, #154, tied with 23 others including both U Mass-Dartmouth and U Mass-Lowell, Wesleyan, and Ohio University

Forbes Ranks CCNY as a True Engine of the American Dream



Forbes' first Covid-era rankings, of the nation's most outstanding schools, maintains City College's standing among the best. From an exclusive field of 600 four-year schools drawn from the nearly 2,700 such degree-granting institutions in the U.S., CCNY is #140 overall on the Forbes' America's Top Colleges 2021 List. The University of California at Berkeley is #1, the first public school ever ranked first by Forbes.

Forbes suspended its 2020 list, and used the pandemic year to re-evaluate its methodology. On the 2021 list, schools placed well for serving low-income students, if students secured low debt, graduated on time and went on to have successful careers with high salaries. In other words, how well colleges served "as a true engine of the American Dream."

CCNY placed high in other categories, including #63 in Public Colleges, #99 in Research Universities and #58 in The Northeast.

Emsi Burning Glass Study Quantifies CCNY's Social Mobility Prowess



Undergraduates at CCNY can expect a significant return on their investment in a bachelor's degree, according to the labor market data firm Emsi Burning Glass.

A study by labor market data firm Emsi Burning Glass affirms the significant impact a CCNY education has on its alumni. Emsi Burning Glass' investment analysis of CCNY determines that for undergraduates, a bachelor's degree generates a positive return on their investment. The study estimates that students laying out an average of \$36,715 in present value student costs will receive a present value of \$283,948 in increased earnings over their working lives. Outlay costs include tuition, books, supplies and student loans.

Overall, the benefit-cost ratio is 7.7-, meaning that for every \$1,000 students invest in a BA at CCNY, they will receive \$7,700 in higher future earnings. The corresponding annual rate of return for the students' educational investment is 26.5%. BA students at CCNY see, on average, a payback period of 6.1 years, indicating that about six years after a student's initial educational investment of foregone earnings and out-of-pocket costs, they will have received enough higher future earnings to fully recover all costs.

The Emsi Burning Glass study uses a wide array of data that are based on several sources, including academic and financial reports from CCNY, data on CCNY alumni employment outcomes from Emsi Burning Glass' recent Alumni Outcomes report, industry and employment data from the Bureau of Labor Statistics and Census Bureau; and outputs of Emsi Burning Glass' multi-regional social accounting matrix (MR-SAM) and impact model.

Given that students have the potential to earn more as they achieve higher levels of education, a CCNY graduate with a bachelor's degree can expect approximate wages of \$60,600 per year in New York, which is approximately \$11,400 more than someone with a high school diploma.

For the Alumni Outcomes report, Emsi Burning Glass obtained data from the college and used state economic data from various public sources. Proprietary data modeling tools were used to generate the study's results. Using 241,282 alumni records provided by CCNY, Emsi Burning Glass identified their current occupations, combined with their programs of study while at CCNY, graduation year, and more. Through this process, Alumni Outcomes matched 24,608 profiles from as early as the class of 1960 to as recent as 2020.

The following is how CCNY fares in the annual evaluation of America's top degree-granting schools:

RANK #10 (Tie)

in Social Mobility, National Universities
("U.S. News & World Report")

Top 15% out of 739

Best Colleges for Your Money
("Money" magazine)

RANK #8 out of 797

Campus Diversity
("Wall Street Journal")

RANK #140 out of 600

America's Top Colleges
("Forbes")

RANK #154 (Tie)

Best Undergraduate Computer Science
("U.S. News & World Report")

Top 1.8% out of 19,788

Best Universities Worldwide
(Center for World University Rankings)

Wall Street Journal Ranks CCNY #1 Nationally for Best Value

The City College of New York ranks #1 for Best Value among the top 250 U.S. schools, according to the 2022 Wall Street Journal/Times Higher Education Best College Rankings. The publications determined this by dividing each institution's overall score by its net price. City College was #212 overall on the rankings out of 796 colleges and universities.

CCNY also ranked #6 for Environment, a category that includes student diversity and inclusion, two elements that are fortes for CCNY, which has a student body representing more than 150 nationalities. CCNY placed in the first decile for Environment and climbed two places from its eighth ranking nationally by WSJ/THE last year.

Regionally, City College was ranked #82 out of 258 institutions in the Northeast.

The Wall Street Journal/Times Higher Education College Rankings is a pioneering ranking of U.S. colleges and universities that puts student success and learning – based on 100,000 current student voices – at its heart. Developed in partnership with US experts and universities, the ranking captures four key areas of performance: the resources available to support education at an institution; the ability of degree programs and teaching to stimulate learning; the diversity and inclusiveness of a college environment; and the propensity of an institution to contribute to students' success.

#1 on Overall Mobility Index from Opportunity Insights

The Harvard-based Opportunity Insights ranks CCNY #1 out of 369 selective public colleges in the US on the overall mobility index. This measure reflects both access and outcomes, representing the likelihood that a student at CCNY can move up two or more income quintiles.

Most Affordable School in New York State by University HQ

CCNY is one of two schools in New York State on the UniversityHQ.org rankings of most affordable four-year colleges and universities by State. The other school is SUNY at New Paltz. UniversityHQ.org ranks the most affordable colleges in the United States. Criteria is based on the lowest tuition cost.

Get the Most for Your Money at CCNY, According to "Money" Magazine

The City College of New York's long tradition of quality, affordability and outstanding student outcomes continues to gain national recognition. In its 2020 Best Colleges for Your Money rankings, "Money" magazine lists CCNY in the top 15%.

CCNY ranked #113 out of 739 four-year schools that met "Money" magazine's benchmark for successfully combining quality and affordability. MIT, Stanford University and Princeton ranked first, second and third, respectively.

To make the initial cut based on "Money" magazine's methodology, a college had to have at least 500 students, have sufficient, reliable data to be analyzed, not be in financial distress, and have a graduation rate that was at or above the median for its institutional category (public, private or historically black college or university), or have a high "value-added" graduation rate.

"Money" magazine weighed more than 20,000 data points, including tuition fees, family borrowing, and career earnings. Data sources included the U.S. Department of Education, Peterson's, PayScale.com, and Money/American Institutes for Research calculations.

Princeton Review Goes All in on CCNY



The company considers data from its survey of administrators at several hundred colleges in each region, information from staff visits to schools over the years, and the opinions of college counselors and advisors whose perspectives the company solicits, as well as student surveys.



Best Northeastern



Green Colleges



The 387 Colleges

“The Best 387 Colleges”

The City College of New York is one of the nation’s best institutions for undergraduates, according to The Princeton Review. The education services company profiles and recommends CCNY in the 2022 edition of its annual guide to “The Best 387 Colleges.”

“We salute The City College for its outstanding academics and we are genuinely pleased to recommend it to prospective applicants searching for their ‘best-fit’ college,” said Rob Franek, The Princeton Review’s editor-in-chief and lead author of “The Best 387 Colleges.”

Only about 14% of America’s 2,700 four-year colleges are profiled in the book, which is one of The Princeton Review’s most popular publications.

The company chooses the colleges for the book based on data it annually collects from administrators at hundreds of colleges about their institutions’ academic offerings.

The Princeton Review also considers data it gathers from its surveys of college students at the colleges who rate and report on various aspects of their campus and community experiences.

The Princeton Review does not rank the colleges in the book from 1 to 387. CCNY’s inclusion in “The Best 387 Colleges,” the 30th anniversary edition of the book, is solely due to Princeton Review’s high opinion of the College’s outstanding academic programs.



“Green Colleges: 2021 Edition”

City College is one of the nation’s most environmentally responsible colleges, according to “The Princeton Review’s Guide to Green Colleges: 2021 Edition.” The Guide profiles 416 colleges.

The Princeton Review chose the schools based on a survey of administrators at 695 colleges in 2019-20 about their institutions’ commitments to the environment and sustainability. The company’s editors analyzed more than 25 survey data points in the process of choosing schools for the guide. The schools chosen received Green Rating scores of 80 or higher (on a scale of 60 to 99) in the spring 2020 tallies for the project.

The Princeton Review cites City College’s sustainability program, “CCNY Green,” the name of City College’s campaign to “rethink the way we teach, learn, conduct research, operate, and live.” A Sustainability Task Force was created to “place sustainability at the forefront in all operations, outreach, and educational missions.” Other initiatives include new hydration stations being installed in several buildings to reduce bottled water waste by providing chilled, filtered tap water free of charge for use with refillable containers. CCNY is home to “The Urban Gardens at City College,” a patch of land on the more than 35-acre lush campus where produce is cultivated for the school’s food pantry.

The Princeton Review has seen an increasing level of interest among students in attending colleges with green practices, programs, and offerings. Seventy-eight percent of the more than 11,000 college applicants that participated in The Princeton Review’s 2021 College Hopes & Worries Survey said that having information about a college’s commitment to the environment would affect their decision to apply to or attend a school. This was a 12% increase over the 66% so indicated on the company’s 2020 survey.

“2021 Best Colleges: Region by Region”

CCNY also features in “The Princeton Review’s 2021 Best Colleges: Region by Region,” that salutes the top 655 colleges considered “academically outstanding,” in five zones—Northeast, Southeast, Midwest, West, and International. CCNY is listed in the Northeast.

The colleges that made the Best in the Northeast list are located in 11 Northeastern states and the District of Columbia. The schools in each region are listed in alphabetical order by school name, and not ranked.

The company considers data from its survey of administrators at several hundred colleges in each region, information from staff visits to schools over the years, and the opinions of college counselors and advisors whose perspectives the company solicits, as well as student surveys.

GREAT RANKINGS ROLL IN FOR CCNY AT HOME AND ABROAD

ARWU Places City College in Top Half of Best Global Schools

CCNY is listed among the best 1,000 schools globally in the latest Academic Ranking of World Universities (ARWU). This adds to CCNY's national and international recognition.

City College is in the top half of the world's best universities, tied at #401 with 99 other schools. According to ARWU's methodology, CCNY's national/regional ranking is #115.

Universities are ranked by several indicators of academic or research performance, including alumni and staff winning Nobel Prizes and Fields Medals, highly cited researchers, papers published in "Nature" and "Science," papers indexed in major citation indices, and the per capita academic performance of an institution.

Best College for Veterans by Military Friendly®

City College earned the designation of Military Friendly, and was recognized as a Best College for veterans in the Large Public School category nationally. CCNY is the CUNY-wide home of ROTC, runs a Veteran Association and helps lighten the financial burden for eligible veterans. The 2021-2022 survey by Military Friendly® awards the designation to approximately 750 schools. Over 1,200 schools participated and were evaluated using public data sources and a proprietary survey. Military Friendly® is owned and operated by VIQTORY, a service-disabled, veteran-owned small business.

CCNY Among Top 1.8% Schools Globally According to 2022 CWUR Rankings

The City College of New York is among the top 1.8% out of 19,788 universities worldwide according to the 2021-22 edition of the "Global 2000 List" by the Center for World University Rankings (CWUR).

City College is #350 among the 19,788 degree-granting institutions of higher education analyzed by CWUR, #108 in the United States and #123 regionally (USA and Canada).

Harvard University, Massachusetts Institute of Technology and Stanford University, in that order, occupy the first three places on the rankings.

CCNY's other placings on the CWUR list this year include: #22 for Quality of Education, #437 for Alumni Employment, and #792 for Research Performance. These amounted to an overall score of 76.0.

CWUR's methodology involves using several objective and robust indicators to rank the world's universities. Quality of education, measured by the number of a university's alumni who have won major academic distinctions relative to the university's size, is a measure indicator (25%). Alumni employment, measured by the number of a university's alumni who have held top executive positions at the world's largest companies relative to the university's size (25%), is another. Quality of faculty, measured by the number of faculty members who have won major academic distinctions (10%), is another significant indicator.

AcademicInfluence.com Picks CCNY as a Top Research College

Using its unique and innovative InfluenceRanking Engine, AcademicInfluence.com lists City College among its 50 Best Research Universities in the US for Undergraduates.

CCNY shares top billing with universities such as American, Boston, Brandeis and Brown for their excellence as research institutions of note for undergraduates.

Other top ranked schools include California Institute of Technology, Carnegie Mellon University, Case Western Reserve University, The Catholic University of America, and Clark University.

AcademicInfluence.com comprises a team of academics and data scientists working to provide an objective, non-gameable influence-based ranking for the people, schools, and disciplines that make up higher education. With its college strategist, desirability score, and custom college rankings, AcademicInfluence.com helps students to discover the most influential higher education institutions.

AIP Ranks CCNY as Major Producer of Physics Grads

The American Institute of Physics (AIP) ranked CCNY as a Top Producer of Physics Graduates in the latest survey of Enrollments and Degrees. AIP lists CCNY tied for eighth place among master's-granting departments averaging 15 or more physics bachelor's degrees per year, between the Classes of 2016 and 2018.

The number of physics graduates around the nation continues to grow in a 20-year trend and CCNY is no exception. "The Class of 2020 had 25 graduates from the department," said Professor and Chair of Physics Vinod M. Menon.

"Hispanic Outlook" Ranks CCNY a Top School for Latinx/a/o



The City College of New York maintains its national status as a magnet for Latinx/a/o. Designated a Hispanic-serving institution of higher education by the U.S. Department of Education (DOE), CCNY remains on "The Hispanic Outlook on Education Magazine's" annual Top 100 Colleges and Universities for Hispanics list.

Using NCES/IPEDS Department of Education data, "Hispanic Outlook" ranks CCNY highly in three categories:

2019 Grand total Bachelor's degree, #63

2019 Grand total Master's degree, #93

Total Enrollment 4-year Schools (2021) #91, #76 (2018 – 2019)

"Every year, the 'Hispanic Outlook in Higher Education' features Top 100 lists to chart the national progress of Hispanics in higher education and to recognize the institutions that are committed to serving Hispanics' educational needs," according to the magazine.

The largest ethnic group on campus, Hispanics constitute approximately 39% of CCNY's more than 16,000 students.

And in a recent boost to the demographic, CCNY was the recipient of a \$3 million five-year grant from the DOE to increase the number of Hispanic and low-income graduates leaving the institution with work-ready skills and connections to employers. The funding will go to CiPASS-ExL, an interdisciplinary program at CCNY focusing on experiential learning. (See story on page 22).

2021 CCNY GIFT CHART

GIFTS OF \$1,000 TO \$9,999

Diane L. Abeloff	Gerner Kronick & Valcarcel Architects, DPC	Arthur M. Loewenthal	Daniel G. Schultz
Robin T. Abrett	Theodore M. Gewertz	Glenn Y. Louie	Lawrence F. Shackman
Karl R. Alff	Cynthia Gilbertson	William C. Louie	Kenneth A. Shackman
Anita Altman	Ihab G. Girgis	Stephen Lovell	Martin B. Sherwin
American Society of Mechanical Engineers	Joel N. Glassman	LV Book LLC	Richard Shikiar
Gabriele R. Arents	Esther Glassman	Edith S. Maclin	Mihailo Simic
Joel L. Arougheti	Harriet Glassman	QiLi M. Madhu Patel	Ruth J. Simmons
Jerome B. Ash	Howard Goldfine	George Malin	Marty B. Slagowitz
Association of College and University Educators	Ronnyjane Goldsmith	Walter Mankoff	Eugene G. Slater
William Auerbach	David M. Goodstein	John Manuck	Lewis J. Smith
Jane H. Bachner	Google Inc.	Michael C. Mark	Zanwil Sperber
Carol Bahoric	Lisa Gornick	Akeem Marsh	Ruth E. Stark
Youngkee S. Baik	Harold Gotthelf	Alfonse T. Masi	Zina Steinberg
Scott Baum	Hans C. Graber	Hazel-Ann F. Mayers James	Arthur H. Stevens
Seymour S. Beneroff	Eugene A. Graff	James C. McGroddy	Bernard S. Strauss
Wayne A. Benjamin	Diana Granat	Rita McLoughlin	Robert Sugarman
Stuart A. Bernstein	Stanley M. Greenwald	Norman R. Milefsky	Allen Taylor
Barbara B. Bertin	Gail Greenwald	Stanley Misler	The Catholic Foundation
Stanley M. Besen	Eric A. Gronningsater	Maureen B. Mitchell	The Dana Foundation
Orest Bilous	Stanley J. Grubel	Roy Mittelman	The Estate of Elsa Wolschina
Harry H. Birkenruth	Bernard Haber	Harold J. Moskowitz	The Estate of Robert Unger
Robert A. Blackey	Mark Halperin	Dee Dee A. Mozeleski	The Gladys Kriebble Delmas Foundation
Jeannie Blaustein	Steven D. Heinemann	Mark Muller	The Lucius N. Littauer Foundation
Rebecca Block	Clifford W. Henry	Albert H. Nagler	The Randall and Mary Hack Foundation
Paul E. Bobb	Steven Hess	National Football League Alumni, Inc.	The TASC Group
Madeline Boynton	Pamela Hirsch	Jack Needleman	The Whiting-Turner Contracting Company
Richard Braida	Vicki Z. Holleman	Julian T. Nelson	Thornton Tomasetti Group
Greg Brock	Madeline Holzer	Hannah M. Nelson	Jacob Tuber
Bert E. Brodsky	Holzer Family Foundation	Ira M. Nerenberg	Shahron V. Van Rooij
Archie J. Calise	Howard and Sarah Solomon	Nnaemezue obi-eyisi	Anna Vesco
Gary A. Calnek	IBM	Susan Ochshorn	Deborah L. Vietze
Catchpoint	Illinois Tool Works Foundation	William I. Olbricht	Robin Villa
Robert B. Catell	Camoes Institute	George R. Oliger	Ruby Vogelfänger
Ngee-Pong Chang	Allen F. Isaacman	Harold Z. Ollin	Claudia Wagner
Charles Grunfield Foundation Inc.	Ross M. Jackman	Oppenheimer & Company, Inc.	Lizabeth B. Weaver
Michael A. Colucci	Melissa Jacobs	Finn Partners	Irwin M. Weisbrot
Andrew Conde	Wendy Jen	SunJlee D. Pegram	Michael H. Wellner
Barbara K. Cuneo	Jewish Communal Fund	Penguin Random House, Inc.	Robert B. Welner
Alfonso S. D'Elia	Joan N. and Norman Bluestone Foundation, Inc.	Henry D. Perahia	Howard K. Welsh
David & Minnie Berk Foundation Inc.	Fernand Joseph	Pershing	Anthony Welters
Albert V. De Leon	Joyce Green Family Foundation	Kenneth G. Peskin	Josh S. Weston
Robert J. Demas	David K. Kahaner	Ernest J. Petersson	Wheelabrator
Margo DeSantis	Harvey T. Kaplan	Mollie N. Pfumm	Justin C. Williams
DFI Educational Trust	Ellen D. Katz	Physician Assistant Education Association	Robert J. Woll
Paul J. Donahue	David M. Kaufman	Edward S. Plotkin	Scott Woodruff
Irving Dostis	Seymour F. Kaufman	Dennis Poller	Alexandra Woods
Samuel E. Ebbesen	Robert A. Keilbach	Michael S. Pope	Young & Rubicam
P. H. Edelstein	Cara Klein	Jerald Posman	Rafia M. Zafar
Neal R. Eisenberg	Leonard Kleinrock	Lisa Pownall-Gray	Thomas K. Zaslavsky
Margot T. Elkin	William M. Knobler	Premera Blue Cross	Mitchell H. Zimmerman
Roger E. Ervast	Harold S. Koletsky	Princeton University Press	
Harry J. Ettinger	Sandy J. Koo	Joan P. Pritchard	
Marjorie Feder	Lucien F. Kraner	Rishi Raj	
Carole Feil	Catharine Krellenstein	Ira W. Reiser	
Stuart F. Feiner	Brian A. Krivisky	Nicholas A. Renzi	
Randi Feiner	Edward P. Krugman	Marcia F. Ribalta	
Paul Fisher	Howard K. Kuritzky	Donald A. Ritchie	
Dena Fisher	Marthe LaRosliere	Gerald Ritzer	
Bernard V. Flam	Conrad C. Lautenbacher	Jerome L. Robinson	
Alan Fligiel	Carl W. Leaman	Ana A. Rojas	
James Flock	Wing Y. Lee	Stanley Rosenstock	
Mark A. Forte	David A. Lenzner	Kate Rothen	
Axe-Houghton Foundation	Shou-Ling L. Leong	Allen J. Rothman	
MTM Foundation	Hilary Levine	QiLi Marcia Rubinos	
Lawrence R. Fox	Irving Levine	Ludwig Rudel	
Mark A. Fox	Michael R. Levy	Allan Sacks	
Joan Fox	Alan J. Levy	Marie-Caroline Sainpy	
Arthur Fox	Bertram J. Lewitt	William H. Saltzman	
Allen Gabor	QiLi Li	Harold Sanders	
Margaret Gallegos	Jian Li	Santander Bank, N.A.	
Foster Garvey PC	Benjamin Liaw	Myriam P.P. Sarachik	
Gordon Gebert	Lillian Feder Foundation, Inc.	Norman S. Sas	
Donald N. Gellert	YourCause, LLC	Roslyn F. Schneider	
		Martin Schulman	

Each year, we work to create a comprehensive list of giving to the College. If you see any errors, or would like a correction made to a future issue of this Report, please feel free to email us: give@ccny.cuny.edu

GIFTS OF \$10,000 TO \$49,999 AMOUNT

Estate of Joel Zelnick	\$48,643.66
The Estate of Raymond S. Klein	\$40,000.00
Covanta Energy Corp.	\$40,000.00
National Consortium for Graduate Degrees	\$40,000.00
John J. Eschemuller	\$38,100.00
City of New York Office of the Comptroller	\$36,662.73
Edmund D. Hollander	\$36,000.00
Osborne Association, Inc.	\$35,062.25
Seymour Sternberg	\$35,000.00
Theodore Cross Family Charitable Foundation	\$35,000.00
The Teagle Foundation	\$35,000.00
Paul Slysh	\$34,873.41
Richard Von Zerneck	\$32,850.00
Peter Scola	\$31,304.38
Amos A. Avidan	\$30,000.00
Doreen DiGiacomo	\$30,000.00
Shade K. Little	\$30,000.00
Dan McGinn	\$30,000.00
The Lincoln Fund	\$30,000.00
YPO New York City Chapter, Inc.	\$30,000.00
Mary K. Brewster	\$30,000.00
Beatrice Welters	\$26,126.31
Jeff Horing	\$26,000.00
David Horing	\$26,000.00
Shahara Ahmad-Llewellyn	\$25,759.00
L Brands Foundation	\$25,200.00
Arlene S. Abramson	\$25,018.00
Jacob Feinstein	\$25,000.00
Robert F. Lirtzman	\$25,000.00
Margaret C. Hauben	\$25,000.00
Rose and David Dortort Foundation	\$25,000.00
Janet Gornick	\$25,000.00
Judith S. Stein Family Fund	\$25,000.00
California Community Foundation	\$25,000.00
M.T.D. Corporation	\$25,000.00
Robin Hood Foundation	\$25,000.00
Arthur T. Brody	\$20,000.00
NACME-National Action Council for Minorities in Engineering	\$20,000.00
Seymour Katz	\$20,000.00
James A. Cunningham	\$20,000.00
BNY Mellon Foundation	\$20,000.00
Exelon Generation	\$20,000.00
International Hip Dysplasia Institute	\$20,000.00
Quest A Community for Lifelong Learning	\$19,250.00
The Milch Foundation	\$18,129.60
Bernard Feiner	\$17,695.35
Peter C. Compo	\$16,000.00
West Harlem Development Corporation	\$16,000.00
JP Morgan Chase	\$15,000.00
Robert W. Adler	\$15,000.00
Wen Y. Wang	\$15,000.00
Benjamin Geballe	\$15,000.00
Diageo Americas BIC	\$15,000.00
The May and Samuel Rudin Family Foundation Inc.	\$15,000.00
innoveering	\$15,000.00
Ferdinand J. Carillo	\$14,280.00
The New York Community Trust	\$12,500.00
Cindy L. Benson	\$12,500.00
Philip Benson	\$12,500.00
Elizabeth Weikes	\$12,500.00
Gabriella de Beer	\$12,097.00
Anna R. Marinaccio	\$11,000.00
William Bressman	\$10,800.00
David S. Newman	\$10,500.00
Estate of Phyllis Stein	\$10,044.25

GIFTS OF \$50,000 AND OVER AMOUNT

RICHARD J. HENLEY AND SUSAN L. DAVIS	\$2,500,000.00
ESTATE OF STANLEY KUSHINSKY	\$985,322.00
THOMAS FARARO ESTATE AND TRUST	\$731,179.62
WILLIAM R. KENAN, JR. CHARITABLE TRUST	\$ 600,000.00
ANONYMOUS	\$585,623.00
NBC UNIVERSAL INTERNATIONAL GROUP	\$500,000.00
STANDARD CHARTERED BANK	\$467,300.00
THE JEROME LEVY FOUNDATION	\$430,000.00
RDG ZABEL FUND	\$400,000.00
KENNETH AND GLORIA LEVY	\$250,000.00
THOMAS H. HAINES	\$225,952.38
THE CARROLL AND MILTON PETRIE FOUNDATION	\$210,678.00
CARNEGIE CORPORATION OF NEW YORK	\$202,000.00
HEISING-SIMONS FOUNDATION	\$200,000.00
NATIONAL PHILANTHROPIC TRUST	\$200,000.00
THE LUCIAN CASTE CHARITABLE FOUNDATION	\$180,000.00
THOMAS W. SMITH FOUNDATION	\$175,000.00
AMERICAN COUNCIL OF LEARNED SOCIETIES	\$169,000.00
THE ESTATE OF MARILYN W SESKIN	\$168,538.53
THE BRAND FAMILY FOUNDATION	\$160,000.00
THE GROVE FOUNDATION	\$150,000.00
THE GIVING BACK FUND	\$147,393.00
HOWARD V. CAMPBELL	\$125,000.00
HOWARD SRAGOW	\$120,000.00
SEYMOUR L. MOSKOWITZ	\$100,000.00
JIN ROY RYU	\$100,000.00
STANLEY L. EISNER	\$100,000.00
MARK E. KOZMINSKY	\$100,000.00
BERNARD MALBERG	\$100,000.00
THE CHARLES AND ANN JOHNSON FOUNDATION	\$100,000.00
EDMOND NASS	\$99,254.25
THE ZANKEL SCALA FAMILY FOUNDATION	\$80,000.00
ANONYMOUS	\$79,300.00
VINCENT G. BOUDREAU	\$75,000.00
THE ALFRED HARCOURT FOUNDATION	\$75,000.00
MICHAEL E. GREEN	\$60,000.00
HOWARD L. MORGAN	\$60,000.00
THE RUDIN FOUNDATIONS, INC.	\$55,500.00
OAK FOUNDATION	\$54,870.00
MARC W. AND LAURA H. SALGANIK	\$52,000.00
JUDITH WHELLAN	\$50,603.75
TURNER CONSTRUCTION CO.	\$50,000.00
LCU FOUNDATION	\$50,000.00
ANDREA S. PALADINO	\$50,000.00
TONY LISS	\$50,000.00
Laurie Kayden Foundation	\$50,000.00
HENRY AND LUCY MOSES FUND INC.	\$50,000.00
GN RESOUND	\$50,000.00
THE RICK & SUSAN GOINGS FOUNDATION	\$50,000.00

EXTERNALLY FUNDED GRANTS FOR FACULTY RESEARCH GREATER THAN \$500K AND TRAINING GREATER THAN \$250K IN FY21.

NAME AND DEPARTMENT	PROJECT	AMOUNT
MICHEAL BOBKER Director of Building Performance Lab	Building Performance Lab - ENERGY DATA LAB	\$5,996,908.00
VINCE BOUDREAU & DEE DEE MOZELESKI CCNY President & Executive Director of The Foundation for City College	Living Redemption Youth Opportunity Hub	\$1,577,583.00
JORGE GONZALEZ Professor of Mechanical Engineering NOAA-CREST Professor	CCNY Initiative to Promote Academic Success in STEM (CiPASS) & CiPASS-ExL: City College Initiative to Promote the Academic Success of Students - Experimental Learning and Industry Engagement for Workforce Readiness	\$1,785,111.00
RAMONA HERNANDEZ Professor of Sociology Director of the CUNY Dominican Studies Institute at City College	Dominican Studies Institute	\$797,125.00
KAREN HUBBARD Professor of Biology	1/2 CCNY-MSKCC Partnership for Cancer Research, Education and Community Outreach	\$1,502,189.00
CAMILLE KAMGA Associate Professor of Civil Engineering Director of the University Transportation Research Center at City College	Transportation Systems Development Agreement- Active Traffic Demand Management	\$598,064.00
AKIRA KAWAGUCHI Professor and Chair, Computer Science	New York City Tech Talent Pipeline (TTP) Co-op Program	\$318,760.00
MASAHIRO KAWAJI Professor of Mechanical Engineering Assistant Director of the CUNY Energy Institute	Characterization of Plenum to Plenum Natural Circulation flows in a High Temperature Gas Reactor (HTGR)	\$750,000.00
ALEXANDER KHANIKAEV Professor of Electrical Engineering	System for Visible and Infrared Spectroscopy of Emergent Classical and Quantum Photonic Nanomaterials	\$574,089.00
RONALD KODER Associate Professor of Physics	Understanding the Evolutionary Optimization of Enzyme Dynamics And Specificity	\$900,000.00
SHARON MACKKEY-McGEE Executive Director of Continuing and Professional Studies	Home Health Aide Training Program	\$300,751.00
HERNAN MAKSE Professor of Physics, Levich Institute	Application of the Principle of Symmetry to Neural Circuitry: from Building Blocks to Neural Synchronization in the Connectome	\$1,064,970.00
FRED MOSHARY Professor of Electrical Engineering Director Earth System Science and Environmental Engineering	CSC-Earth System Sciences and Remote Sensing Technologies - ESSRST	\$1,929,001.00
LUCAS PARRA Professor of Biomedical Engineering	Machine Learning for Risk-Adjusted Breast MRI Screening	\$703,824.00
STEFAN U. PUKATZKI Professor of Biology	The Role of Type VI Secretion in Cholera Pathogenesis	\$1,068,852.00
MITCHELL SCHAFFLER CUNY Distinguished Professor and Wallace H Coulter Professor Chair of Biomedical Engineering	Structural, Molecular and Functional Specialization in Osteocyte Mechanosensing	\$615,547.00
RUTH STARK Director of CUNY Institute for Macromolecular Assemblies Director of CCNY Graduate Research Training Initiative for Student Enhancement	G-RISE at The City College of New York	\$644,079.00
NANCY STERN Associate Professor of Education	Improving Instruction for Secondary English Learners: TESOL Certification and Team-Based Professional Development in Content-Area Literacy	\$534,370.00
HAO SU Professor of Mechanical Engineering	W-HTF-RL: Collaborative Research: Improving the Future of Retail and Warehouse Workers with Upper Limb Disabilities via Perceptive and Adaptive Soft Wearable Robots	\$1,884,010.00
KAREN WITHERSPOON Vice President of Government, Community & Cultural Affairs	Upward Bound	\$378,856.00

RESEARCH AND TRAINING GRANTS MAY REPRESENT MULTIPLE AWARDS FROM VARIOUS AGENCIES. THIS IS A PARTIAL LIST OF ALL ACTIVE AWARDS MANAGED BY THE GSP OFFICE. TOTAL FUNDS MANAGED FOR FY21 IS: \$64,194,902.00

SPONSOR	BUDGET AMOUNT
City	\$10,228,132.00
Federal	\$25,559,490.00
Private	\$4,868,039.00
State	\$1,545,558.00
TOTAL	\$42,201,219.00

The super number total is: \$58,172,974 from 266 projects. This is also the total of grants of all award amounts. The total sponsor amount shown above is given by awards from 7/1/2020 and onwards.

FOR A COMPLETE LISTING ALL OF AWARDS REFLECTED, PLEASE VISIT: WWW.CCNY.CUNY.EDU/RESEARCH

Trust Donation Fosters Special Status with Stuyvesant High School



A charitable donation from the Thomas J. Fararo Revocable Trust will fund the Stuyvesant-CCNY Initiative, which enables City College to expand its recruitment and retention of talented graduates of Stuyvesant High School. The scholarships funded by the Initiative can be used to support any major, and may be used for tuition, books, conferences and pre-professional development.

Thomas J. Fararo '58 (1933-2020) grew up in East Harlem and graduated from Stuyvesant in 1950. After four years in the U.S. Air Force, during which he served as a cryptologist, he attended City College and Columbia University on the GI Bill, graduating in 1958. He earned a Ph.D. in sociology at Syracuse University in 1967, and eventually joined the faculty of University of Pittsburgh, where he taught for more than 40 years. His scholarly contributions to the field of sociology earned him innumerable accolades and honors, including the title of Distinguished Service Professor of Sociology, which the University bestowed on him in 1998.

CCNY has traditionally been a destination for Stuyvesant graduates. The relationship between the two institutions spans more than a century. The storied high school, widely acknowledged to be the most selective in NYC, has provided CCNY with many noteworthy graduates who have gone on to make their mark on the world in a variety of disciplines and professions.

Bernard Malberg Scholarship Aids Aspiring Medical and Dental Students



The Dr. Bernard Malberg Pre-Medical/Pre-Dental Endowed Scholarship Fund has been established to support students in its Division of Science looking to continue their education further in the areas of dentistry and medicine.

Bronx native Bernard Malberg (1922-2016) graduated from CCNY in 1950. He served in the U.S. Army during World War II and attended the NYU College of Dentistry upon his return. After receiving his dental degree, he returned to service as a U.S. Navy dentist during the Korean conflict.

Malberg established his dental practice in West Islip, N.Y. Soon after, he treated his neighbor, lawyer and fellow alum Edward Flower '46, for a cracked tooth. The two became close friends, and Flower assumed the roles of his friend's personal attorney and the sole trustee of his charitable trust.

Flower said that he had made many gifts over the years in varying amounts to a diverse array of causes, but that "we had to do something for City College."

"In meeting Mr. Flower, and reading about his friendship and professional association with Dr. Malberg, it was evident that building lasting relationships with people was one of Dr. Malberg's great passions," said Vice President for Institutional Advancement and Communications Dee Dee Mozeleski, who is also the executive director of The Foundation for City College, Inc. "This new scholarship fund will support generations of students as they begin their post-CCNY lives, and we know they will build their own unique and lasting networks throughout their careers."

Henry Newhouse Scholarship Established for EAS Students



Ruth Sragow Newhouse founded the Henry Newhouse Scholarship Fund to support qualified undergraduate or graduate students majoring in Earth and Atmospheric Sciences at the College.

Recipients of scholarships from the Fund will be determined by the EAS Department's Scholarship Committee. While the awards are predominantly merit-based, the criteria will also take students' circumstances and backgrounds into account.

Henry Newhouse '59 (1937-2006) was born in the British mandate of Palestine and emigrated to the U.S. with his family in 1947. While attending New York City public schools, young Henry became fascinated with weather forecasting by reading the weather maps in the newspaper and watching local TV weatherman Tex Antoine. Receiving a Regents' Scholarship, he began his lifelong involvement with City College as an engineering major, but switched to meteorology and earned his degree in 1959.

Newhouse held a number of positions over his long and varied career, including stints with the National Oceanic and Atmospheric Administration, the New York Weather Bureau, and the National Weather Service in Washington.

In 1970, he married musicologist Ruth Sragow, a doctoral candidate who chose to spend her professional life teaching music to Washington-area Jewish day school students despite having the credentials to teach at the college level. She died in September 2020, making this bequest in her late husband's memory.

New Colin Powell School Endowed Deanship Gift from Richard J. Henley and Susan L. Davis



A \$2.5 million gift has established the Richard J. Henley and Susan L. Davis Deanship at the Colin Powell School for Civic and Global Leadership. This named deanship is the first of its kind since the Colin L. Powell Center for Leadership and Service was consolidated into the Division of Social Sciences to form the Colin Powell School in 2013.

Richard J. Henley '78, an émigré from Poland whose family fled from communism and anti-Semitism when he was a toddler, received his primary education in New York City public schools. After graduating from the Franklin School, he simultaneously earned a MA and a BA, *summa cum laude*, from City College in 1978. He was also inducted into Phi Beta Kappa.

Henley currently serves as President and CEO of Healthcare Strategic Solutions, LLC, an advisory firm focused on optimizing enterprise value for health systems, private equity firms, portfolio companies, and other business entities through strategy, leadership and business development.

Susan L. Davis, RN, EdD, an experienced healthcare executive, is managing partner at Healthcare Strategic Solutions, LLC.

"For us, this gift is about paying it forward by helping to create academic opportunities for students at the Colin Powell School so they can help make our world a better place," said Henley.

The Colin Powell School's current dean is Andrew Rich, PhD, a political scientist who has held the position since February 2019.

Levy Scholarship Funds Engineering Students in Need



CCNY alumnus Kenneth Levy and his wife Gloria have established a scholarship to support up to 50 students annually in the Grove School of Engineering.

The Kenneth Levy '64 and Gloria Levy Scholarship Fund will provide support to those who demonstrate financial need and the funds may be used for academic expenses, including tuition, books, research supplies, and conferences.

The Levys haven't forgotten their New York City roots, and hope that the fund will help students complete their education.

"Gloria is a graduate of Brooklyn College, where she majored in education, and I graduated with my bachelor of electrical engineering degree from CCNY. We both feel very fortunate that we were able to get a great education at New York City public colleges, as neither of our families had the finances to send us to private institutions," said Levy.

Levy also considers his education at CCNY paramount to his professional success. "When I went to work on my first job as an engineer, I realized that I had a better fundamental engineering skill set than most of my co-workers who graduated from prestigious universities. My CCNY education prepared me for the success I have had building a large publicly held hi-tech company," he said.

Interim Dean Alexander Couzis expressed the Grove School's gratitude for the Levys' support. "I've been on the faculty of The Grove School for nearly 27 years — roughly a quarter of its existence. I can say the faces change but the student profile remains very much the same," said Couzis. "Our students are talented and extremely capable, many are first generation college students whose greatest hurdle is often a financial one. You remove this hurdle and they thrive. This is precisely what Kenneth and Gloria Levy will be doing for 50 students annually for the next four years. I am amazed by their generosity but more so by their vision to develop the next generation of engineers."

"My CCNY education prepared me for the success I have had building a large publicly held hi-tech company."

- Kenneth Levy '64

New Scholarship for Graduate and Undergraduate Chemistry Students



The Stanley Kushinsky and Jean Carmen Scholarship Fund has been established to support qualified undergraduate or graduate students majoring in chemistry.

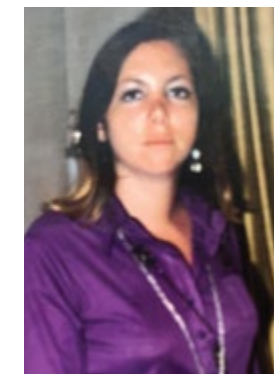
Recipients of scholarships from the Fund will be determined by Chemistry Department Chair Professor Stephen O'Brien in consultation with the Department's Executive Committee. While the awards are predominantly merit-based, the criteria also take into account students' circumstances and background that help promote diversity and inclusion.

Stanley H. Kushinsky '51 (1930-2020) was born in Brooklyn, the son of refugees who fled pogroms in what is now Belarus. He attended New York City public schools before earning his BA in chemistry from City College, his MA from Columbia University, and his PhD from Boston University. He taught biochemistry at UCLA before becoming research director of the Rees-Stealy Institute in San Diego. He then worked for pharmaceutical company Syntex in a variety of positions before retiring in 1993. He continued to publish scholarly papers throughout his career.

He met British-born Jean Carman, a Delta Airlines flight personnel scheduler and a real estate investor, in the mid-1960s. After three decades together, they married in 1996. She died in March 2020, shortly before her beloved husband.

Kushinsky planned his gift, a testament to his lifelong love of City College, because of the opportunity that the College gave him. Carman planned hers because she loved Stan.

Elyse L. Nass Endowed Scholarship Fund for Creative Writing and Playwriting



City College has created the Elyse L. Nass Endowed Scholarship Fund, an annual fund that supports CCNY students enrolled in the Master of Fine Arts in Creative Writing program and/or the Department of Theater and Speech. It will allow the departments to offer generous aid in the form of scholarships, stipends, and other means of support for students pursuing careers in writing, especially in the field of playwriting.

"The scholarship will allow the theater program and the MFA Program to coordinate a playwriting track within our mutual programs that will highlight and benefit students who are interested in the genre," said Michelle Valladares, director of the MFA in Creative Writing program. "This generous grant is a game-changer and will help us highlight playwriting and its related arts at the City College of New York."

Chairperson of the Department of Theatre and Speech Rob Barron said, "We have so many talented students who have so much to say about the lives they've lived and the lives that they're about to live, and this gift will help give them the support and encouragement they need to help them develop their voices."

Elyse L. Nass (1947-2019) was a native New Yorker, an award-winning playwright, and an early champion of gender equality and the rights of the elderly.

Her seminal one-act plays, including "Second Chance," "Admit One," and "Avenue of Dreams," have been performed at home and abroad, including the San Diego Repertory Theater, Los Angeles's Company of Angels and TheaterWorks in Singapore.

In the summer of 1970, Nass' first full-length play, "The Marriage Museum," was one of the first winners of a nationwide playwriting contest sponsored by Brooklyn College and was produced as part of its New American Playwright Series.

The Nass family said that the scholarship was in the spirit of who Elyse was, constantly supportive of others and devoted to the craft of writing.

Each department honored the new Scholarship Fund, and Elyse's memory, at a special ceremony. Edmond Nass, Elyse's brother, and his friend and CCNY alum Robert Adler, visited CCNY in September. Two plaques were unveiled and installed, one at the Master of Fine Arts in the Creative Writing Department, and the other at the Department of Theatre and Speech.

Inaugural Bendich Research Fellowships Goes to CSOM Students



From left to right: CCNY alumnus David Bendich, Fellowship winners Caleb Garard and Cameron E. Morales

"Life has been good to my family...it's time to give back."

- David Bendich, MD '71

CCNY alumnus and pediatric specialist David Bendich, MD '71 has established a research fellowship in honor of his parents Dorothy and Max Bendich. The first recipients are Caleb Garard and Cameron E. Morales of the CUNY Medical School at CCNY. The Dorothy and Max Bendich Student Research Fellowship supports exceptional students showing an interest in science education and clinical research. Fellows receive \$3,000 per semester for expenses incurred while engaged in assigned research.

Bendich, who initially studied music at CCNY before a research program sparked his interest in the life sciences, hopes that fellowship recipients will be similarly inspired. He went on to earn his medical degree from the New York State University School of Medicine-Buffalo in 1975. Since, he has spent more than 45 years serving underrepresented communities.

"Life has been good to my family," he said. "It's time to give back."

Garard and Morales were named Bendich Fellows after a highly competitive selection process. Morales plans on furthering her research on gastrointestinal microbiome disruption. Her research at Montefiore Hospital is through a partnership with Albert Einstein School of Medicine. Garard plans to use the fellowship to pursue his research interest in the racial tensions between French citizens of African heritage and Black immigrants surrounding HIV/AIDS health empowerment.

\$3 Million DOE Grant Benefits Low-Income and Hispanic Graduates



CiPASS-ExL, an interdisciplinary program at City College focusing on experiential learning, is the recipient of a \$3 million five-year grant from the U.S. Department of Education (DOE) to boost the number of Hispanic and low-income graduates leaving CCNY with work-ready skills and connections to employers. Harlem-based CCNY is designated a Hispanic-serving Institution of Higher Education by the DOE.

The acronym for “City College initiative to Promote the Academic Success of Students - Experiential Learning,” CiPASS-ExL is the creation of four CCNY units: the Grove School of Engineering; the School of Education; the Division of Science; and the Career and Professional Development Institute (CPDI).

With the DOE funding, CiPASS-ExL will scale up select programs providing experiential learning to CCNY students via on- and off-campus internships. Jorge E. Gonzalez, Presidential Professor at CCNY and CiPASS-ExL head, said, “The idea is to expose a much larger population to disciplines in high demand sectors of the New York economy.”

Specific goals include creation of programs and opportunities to connect students with employers and explore careers earlier in their trajectories; expansion of internship and experiential learning opportunities in growth areas and industries via a specified pathway; development of the internal infrastructure to support expanded experiential learning, internship opportunities and tracking metrics; and improvement in the retention and employability of students by working with industry and employers to align majors and skill development with current and future opportunities.

“These project goals will have measurable and significant outcomes, such as at least 400 students placed in internships, 1,000 students participating in career readiness and engagement workshops, relationships developed with more than 50 new employers, and curricular revision of at least five majors based on industry advisement,” said Gonzalez.

The big picture, he added, is to provide experiential learning opportunities to the maximum possible number of students from all disciplines, and ideally ensure that each CCNY student graduates after participating in at least one paid internship.

EPA Program Preps South Bronx Residents for Environmental Careers

Unemployed and underemployed residents of the South Bronx can receive training and seek full-time job opportunities in the environmental field, thanks to a City College program funded by the Environmental Protection Agency (EPA). CCNY is the recipient of a three-year \$200,000 Environmental Workforce Development and Job Training (EWDJT) grant from the EPA to create a skilled workforce in the South Bronx, one of many communities where brownfields assessment and cleanup activities are taking place.

The Department of Earth and Atmospheric Sciences runs the EWDJT program for up to 60 participants from the South Bronx, which began in Fall 2021, in conjunction with the Office of Continuing and Professional Studies.

Training will take place in the first two years with job placement the primary focus of the third year. Graduates will earn certification in various environmental fields, including hazardous waste operations and emergency response, environmental sampling and analysis, as well as other environmental health and safety training.

Angelo Lampousis, lecturer in CCNY’s Division of Science, will lead the program with Sharon Mackey-McGee, executive director of Continuing and Professional Studies.

Although it targets South Bronx residents, interested individuals from the five boroughs are welcome to apply for the program. There are no age restrictions. Participants must commit to attending the entire training.

New Rangel Center to Train Underserved Communities for Jobs of the Future



The City University of New York has invested \$400,000 in a new training program at CCNY, the Charles B. Rangel Center for Infrastructure and Workforce Development. This program will equip historically underserved communities with 21st century analytical and operational skills, through innovative curricula, simulation-based training, and experiential learning to help them pursue career paths in the rapidly changing urban infrastructure sector.

Named for longtime U.S. Rep. Charles B. Rangel, who represented the area in Congress from 1971 to 2017, the initiative aims to improve equity, representation and access to jobs in the transportation, infrastructure and construction sectors for residents of Harlem, Inwood, Upper Manhattan and the Northwest Bronx.

Rangel’s successor as Representative for New York’s 13th Congressional District, Adriano Espillat, applauded the CUNY move. He said, “For generations, the communities of Northern Manhattan and the Bronx have been largely left out of the lucrative economic benefits of major infrastructure projects. Knowing this, and in expectation of forthcoming megaprojects like the Second Avenue Subway extension into East Harlem, Congressman Rangel and I endeavored to bring a minority-focused, affordable transportation and infrastructure training institute to CCNY with the aim of equipping the local community with the means to attain highly-technical, stable, union jobs, and finally capitalize on the cascading benefits of infrastructure investment.”

CCNY’s goal is to create and train the workforce that meets the nation’s critical urban infrastructure needs by mid-century. CCNY’s President, Vincent G. Boudreau said, “From the moment Congressman Rangel joined our campus community as a statesman-in-residence, he talked about an educational program designed to meet the vast needs of America’s crumbling infrastructure in a way that provided training and career pathways to residents of historically underserved communities. With Congressman Espillat’s advocacy and support, and CUNY’s \$400,000 investment in this project, we have taken decisive first steps towards realizing this dream.”

Participants in the program will be recruited from the Harlem community and will include feeder programs serving the formerly incarcerated, veterans, minorities, and those without a high school diploma, in partnership with local industry, public agencies, community organizations and unions.

This outreach serves a key component of the initiative: rejection of the notion that a college degree is a prerequisite for getting started in staff positions in these fields.

Rangel said, “I hope that this initiative will be a magnet that would allow us to provide the leadership to meet the dramatic needs that we face.”

Infrastructure not only includes roads, bridges and water systems, but encompasses the continued rise of smart cities, which optimize infrastructure use through the intelligent utilization of Big Data. Innovations, such as autonomous electric vehicle fleets, bridges that can repair themselves, new energy sources with battery-integrated transmission, resiliency, and urban food systems that reduce waste, are also part of 21st century infrastructure.

CUNY Chancellor Felix V. Matos-Rodriguez said, “New York City’s economic recovery runs through CUNY, and this new Infrastructure Training Institute, which aims to create important job opportunities in the transportation and construction sectors in Upper Manhattan and Bronx neighborhoods, where many of our students come from, is evidence of that fact.”

Slysh Donation Endows Scholarship for Grove and Zahn Innovation Center



The estate of engineer, inventor, and alumnus Paul Slysh '49 (1925-2015) has created an endowed scholarship to support students in the Grove School of Engineering and the Zahn Innovation Center. In addition to this generous gift, CCNY will be entrusted with the key to a mausoleum displaying his numerous patents and other materials from his esteemed career.

Slysh's trust donated over \$1.6 million and is preparing to make a final distribution of \$20,000.

"Mr. Slysh's forethought demonstrates not only the endearment he had for his alma mater, but the value he placed on innovation and entrepreneurship. We are appreciative of the confidence he had in the Zahn Innovation Center and the community of innovators we are nurturing. His gift broadens the impact we are able to make," said Kesia Hudson, former Executive Director of the Zahn Innovation Center.

After earning a BA in mechanical engineering from CCNY in 1949, and two master's degrees in mechanical and electrical engineering from Brooklyn Polytechnic Institute, Slysh went on to pioneer the design and implementation of advanced structures in both the aircraft and aerospace industries.

During the 1960s, he worked in data systems and the Convair division at General Dynamics. He was awarded 18 patents and his division's work was used in the aircraft and rocket designs that were at the core of the United States' space program.

Slysh was the principal internal research and development investigator on the isogrid concept. Isogrid is a structure comprised of triangles designed to hold the greatest possible strength with the least possible weight.

Using isogrid was essential to many of the breakthrough engineering developments in aircraft and aerospace design that occurred over the 20th century and it is still used today.

In 1977, Slysh founded his own engineering consulting company, PS Associates, Inc. The company provided design support to an impressive roster of clients including Boeing, Martin Marietta, and Fermilab.

During the 2012-2013 academic year, Slysh gifted Grove with a license to ISOGRID-SST™ (Shell Structures Tools). This software enables rapid, reliable and comprehensive shell structures and isogrid design. He considered this software his crowning professional achievement.

"Mr. Slysh's forethought demonstrates not only the endearment he had for his alma mater, but the value he placed on innovation and entrepreneurship..."

- Kesia Hudson,
Former Executive Director of the Zahn Innovation Center

CCNY Establishes President's Innovation Fund



"An institutional call to demonstrate our commitment to catalyze the development of innovations conceived at City College to achieve greater commercial and societal impacts."

- Vince Boudreau,
CCNY President

In August 2020, The City College of New York announced the establishment of the President's Innovation Fund, part of a holistic, coordinated, innovation acceleration strategy. The fund seeks to address a gap in resources for the development of early-stage innovations into new products and ventures.

City College President Vince Boudreau described the establishment of the fund as "an institutional call to demonstrate our commitment to catalyze the development of innovations conceived at City College to achieve greater commercial and societal impacts."

The President's Innovation Fund is part of a larger strategy for creating consortium partnerships around early-stage projects, where partners provide synergistic resources. An analysis of institutional capabilities by CCNY's new Senior Director of Innovation Management Andrew Wooten identified gaps in support which currently impede innovation development. The magnitude and complexity of the challenge in innovation – whether of a new drug, biomedical device or engineering advance – stems from the fact that multiple types of resources, including intellectual property, capital, expertise and infrastructure, are required for success.

An initial gift of \$100,000 was made anonymously to establish the Fund. Efforts are underway to build upon this seed gift and establish the President's Innovation Fund as an ongoing CCNY program.

"This initiative shows institutional commitment, changing the dynamic of the conversation from one of selling, to one of collaboration and is much more attractive to all stakeholders," said Wooten. "Over time, individual project partnerships can evolve into broad programmatic partnerships."

Wooten Named Innovation Executive



Andrew Wooten became the City College of New York's first-ever senior director of innovation management and business development in May 2020.

In this new position, Wooten leads development and execution of CCNY's strategy to maximize the commercial success of innovations developed with CCNY, CUNY and Foundation for City College resources.

Playing a vital role in identifying where the College can make the most significant impact in the area of research and creative scholarship, Wooten works to strengthen engagement with organizations throughout the region and the country by forming deeper connections between the academy and the needs of the communities that the College serves.

Wooten possesses a long record of achievement in innovation management, including serving as vice president and managing director of Cincinnati Children's Innovation Ventures and as executive director of research business development and strategy at Baylor College of Medicine.

He has also held increasingly responsible positions in academia, private equity and biotechnology companies.

Lopez-Castro Awarded \$200K by NIH for Opioid Research



Teresa López-Castro, psychologist in CCNY's Colin Powell School, is advancing her research into opioid use disorder treatment with a \$200,000 grant from the National Institutes of Health (NIH). The grant enables Lopez-Castro to delve into an aspect of the epidemic – barriers to treatment engagement for individuals with opioid use disorder who have post-traumatic stress disorder (PTSD). Her project is entitled “Impact of PTSD and Trauma Re-exposure on Buprenorphine Maintenance Treatment in Syringe Exchange Programs.”

The award provides López-Castro with access to the research infrastructure of Albert Einstein College of Medicine, specialized mentorship, and dedicated time to transition towards funding independence. Her research will determine the PTSD and traumatic event exposure prevalence in an ongoing research study of on-demand buprenorphine treatment delivered at syringe exchange programs (SEPs) in Washington Heights and the Bronx. López-Castro will examine whether PTSD and traumatic event re-exposure moderate the efficacy of offering buprenorphine at SEPs and elucidate the needs for trauma-related interventions among SEP consumers.

López-Castro will use these findings to develop a low threshold intervention that addresses PTSD symptoms and can be potentially added to the services available at SEPs. Her research includes mechanisms that connect traumatic stress to substance misuse and the advancement of integrative care for addiction and mental health issues.

First-Ever Review Links Structural Racism with Psychosis Determinants



In a first of its kind review in the U.S., social scientists led by Colin Powell School Associate Professor of Clinical Psychology Deidre M. Anglin suggests that the legacy of systemic racism in the U.S. shapes racial inequities in social determinants of psychosis at neighborhood and individual levels.

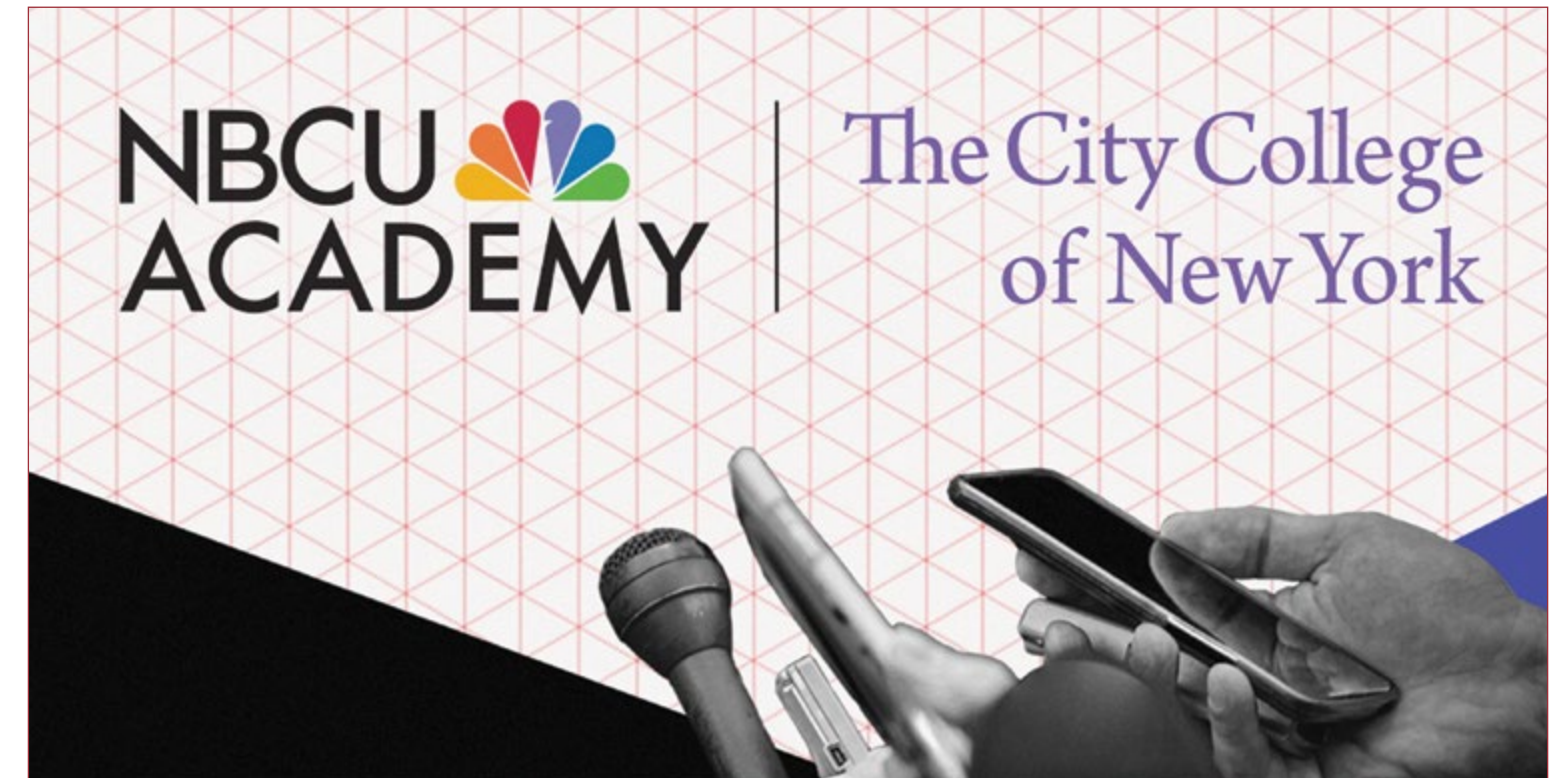
Anglin and her co-authors examine U.S.-based evidence that connects characteristics of the social environment with outcomes across the psychosis continuum, from psychotic experiences to schizophrenia. Their study, “From Womb to Neighborhood: A Racial Analysis of Social Determinants of Psychosis in the U.S.,” appeared in the May issue of “American Journal of Psychiatry.”

The study describes how a legacy of structural racism in the United States has shaped the social gradient, highlighting consequential racial inequities in environmental conditions. They offer a hypothesized model linking structural racism with psychosis risk through interwoven intermediary factors based on existing theoretical models and a review of the literature.

Neighborhood factors, cumulative trauma and stress, and prenatal and perinatal complications were three key areas selected for review by the authors because they reflect social and environmental conditions that may affect psychosis risk through a common pathway shaped by structural racism.

The study details evidence showing that Blacks and Latinx populations suffer disproportionately from risk factors within these three key areas, in large part as a result of racial discrimination and social disadvantage.

Colin Powell School Joins NBCUniversal News Group's NBCU Academy



The City College of New York's Colin Powell School for Civic and Global Leadership is one of 17 academic partners nationally in NBCUniversal News Group's new NBCU Academy, an innovative, multiplatform journalism training and development program for four-year university and community college students.

A partnership with historically Black colleges and universities, Hispanic-serving institutions and colleges with significant Black, Indigenous, Latino, Asian American and Pacific Island and tribal populations, NBCU Academy signals Comcast NBCUniversal and NBCU News Group's commitment to diversity, equity and inclusion. It will offer:

- On-campus training, education and online programming
- A curated onsite curriculum for hands-on learning experience with world-class NBCU News Group journalists
- Funding for accredited journalism programs and scholarships

The Colin Powell School and other institutions, from California to Florida, will benefit from NBCU Academy's investment of \$6.5 million in the initiative, including scholarships worth \$3.5 million over the next two years. In addition to providing equipment and collaborating with professors to develop seminar courses, NBCU News Group journalists, executives and management, from editorial and production teams across NBC News, MSNBC, CNBC and Telemundo, will participate as guest lecturers to provide real-world insight and mentorship.

NBCU Academy builds on the foundation of NBC University, which NBC News launched nearly a decade ago as a training program for young journalism professionals at diversity journalism conferences and conventions, including at the Asian American Journalists Association, The National Association of Black Journalists, The National Association of Hispanic Journalists, The National Lesbian and Gay Journalists Association, Native American Journalists Association, the Online News Association and many more. NBCU Academy is an expansion of that initiative, offering new institutional partnerships.

In June 2020, Comcast NBCUniversal announced a multi-year \$100 million commitment to help address systemic racism and inequality. NBCU Academy is part of that pledge and focuses on providing tools, resources, and platforms for young, underrepresented voices. In July 2020, NBCU News Group announced the Fifty Percent Challenge Initiative, an aggressive action plan to ensure the NBCU News Group employee base becomes 50% women and 50% people of color.

Kim Receives \$600K Grant for Maritime Security Study



Bruce Kim, associate professor of electrical engineering, is the principal investigator of a project to develop a nanosensor that can automatically detect explosive and narcotic vapors from maritime containers. The project, “Development of Automatic Detection System for Maritime Containers with Dangerous Cargo,” is financed by a five-year, \$600,000 grant from the Korea Research Institute of Ships and Ocean Engineering.

The goal is to institute quick, efficient inspection of every one of the hundreds of thousands of container ships that enter American ports every year without having to open each one, thereby reducing the danger to personnel and minimizing the number of false alarms.

The nanosensors would be able to distinguish between the molecules emitted by natural substances, such as the potassium in bananas, as well as explosives and illegal drugs.

CCNY is part of the \$25 million maritime research consortium with 12 research institutes and four universities in Korea.

Castaldi’s Review of Waste-to-energy Studies Reveals Upside



Waste-to-energy facilities offer significant environmental protection, reduce greenhouse gas emissions, and play an important complementary role in recycling efforts, according to a new report that reviews the most up-to-date scientific studies of the industry.

The report, “The Scientific Truth About Waste-to-Energy” by Chemical Engineer Marco J. Castaldi, calls upon dozens of independent scientific reviews to offer a comprehensive assessment of waste-to-energy influence on environmental sustainability and public health.

The report can be used to address outdated data and unscientific conclusions that have fueled debate around the safety and benefits of waste-to-energy. By analyzing the findings of a wide range of independent research studies conducted around the globe, the report serves as an in-depth guide for policy makers and municipalities evaluating the scientific merits of waste-to-energy and its appropriate role in sustainable waste management initiatives.

The world currently has more trash than at any point in history – with the U.S. generating nearly 300 million tons a year, according to the most recent EPA figures. Waste-to-energy facilities generate renewable energy from non-recyclable and non-compostable waste that would otherwise be landfilled.

Castaldi’s report noted the amount of waste to be landfilled could be reduced up to 90% when employing waste-to-energy.

The report was peer-reviewed by subject matter experts at Columbia University, University of Maryland, North Carolina State University, State University of New York Stony Brook, and several international and U.S.-based energy and resource management officials.

Army Awards Grant for Ramamurthy’s Study of Urban Climate Dynamics



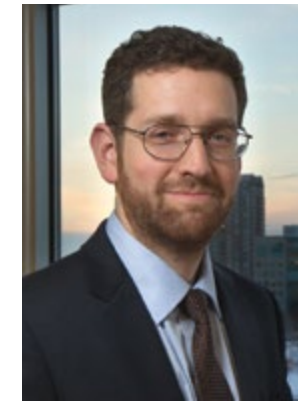
Urban fluid dynamics is an uncharted research field with major relevance beyond the summer’s inevitable heatwaves. Thanks to a \$360,000 grant from The U.S. Army Research Office (ARO), Assistant Professor of Mechanical Engineering Prathap Ramamurthy is undertaking the mysteries of urban fluid dynamics that impact the air flow and exchange of heat over cities. The three-year project is in collaboration with the Army Research Lab.

Ramamurthy, whose affiliation includes the CCNY-based NOAA–CESSRST, will use state-of-the-art remote sensing techniques that incorporate ground and space-based sensors to investigate the mean and turbulent characteristics of the urban atmosphere.

“Overall, the study will lead to better understanding of flows over urban areas and will improve computational fluid dynamics models that simulate flow over cities,” he said.

An expert in the study of the relationship between climate and human activity in urban areas, Ramamurthy’s project is part of his current research thrust which is to understand the mechanisms that exacerbate urban heat island intensity in large cities and their synergistic interaction with heat waves, and developing mitigation strategies to moderate the urban climate.

Biomedical Engineer Marom Bikson’s Team Explores New Treatment for NeuroCOVID



While COVID’s often deadly outcome has resulted in the worst pandemic in a century, studies are unveiling a post-COVID phase for survivors during which neuropsychiatric symptoms, such as fatigue, anxiety and depression, can occur. How to treat this debilitating phase, called NeuroCOVID, is the challenge CCNY Biomedical Engineer Marom Bikson and his team are tackling.

The first stage of COVID is characterized by fever, heart or lung problems. NeuroCOVID is the second stage, characterized by one or a combination of symptoms like vertigo, loss of smell, headaches, fatigue and irritability, as well as anxiety and depression, said Professor Bikson, Grove School of Engineering. These second stage symptoms can persist, leaving patients with ongoing mental health complications.

Bikson is leading a multi-center trial utilizing a revolutionary noninvasive technology developed in his neural engineering lab. It involves stimulating the vagus nerve in an attempt to both directly activate brain healing mechanisms and also reduce inflammation in participants with reported neuroCOVID symptoms. Using this two-pronged approach, which aims to reverse neuropathic changes in brain function while also reducing inflammation (which is known to cause a host of problems in the body) it is hoped that some or all of the patients’ neuroCOVID symptoms will subside.

In addition to state-of-the-art technology to activate the nervous system, the clinical trial incorporates advanced home-based real-time monitoring of patient vitals, and a clinician-patient portal for real-time assessment of progress and remote-control of the technology.

“This is truly personalized medicine, with the ability for physicians to adjust therapy in real-time and monitor patient progress at-home with rigor usually reserved for advanced medical centers. The trial is one example of hundreds of medical treatments developed at CCNY being tested or in use,” said Bikson.

The device used in the trial includes a small clip placed on the ear. A hand-held stimulator provides barely perceptible electrical stimulation to the ear to stimulate the auricula branch of the vagus nerve. The technique is generally called transcutaneous Auricular Nerve Stimulation or tAVNS.

The Bikson group worked with clinicians at the Medical University of South Carolina (MUSC) to optimize tAVNS so it can be used reliably and easily in patients’ homes. The partners also designed a trial allowing entirely home-based treatment for NeuroCOVID.

Bikson directs one of the most productive medical device design labs in the country with support from the National Institutes of Health and numerous corporate partners. It develops medical devices to treat neurological and psychiatric disorders, including devices that apply minute levels of energy to activate the brain and nervous system.

The devices for the NeuroCOVID trial are built by Soterix Medical, a medical device company co-founded by Bikson as a spin-off from CCNY research.

Wittig Accepts National ASCE Award on Behalf of Civil Engineering Department



The Civil Engineering Department is the recipient of The American Society of Civil Engineers’ (ASCE) 2021 Walter LeFevre Award (Large Group). The national award is bestowed to two institutions per year, one with over 50 program graduates and one with fewer than 50 graduates.

“To be eligible, over 60% of our students had to take the Fundamentals of Engineering licensing exam, which is hard to pull off if it is not required for graduation, a substantial number of the faculty have to be licensed, and we have to have a curriculum and program activities that support licensure, ethics and professionalism,” said Department Chair and Associate Professor Beth (Ann E.) Wittig.

Wittig accepted the trophy virtually on the Department’s behalf at the National Civil Engineering Department Heads Conference.

The award was first bestowed in 2007 and is named for E. Walter LeFevre, who endowed the award. LeFevre was widely recognized and highly respected for his extensive contributions to engineering education and practice, to accreditation of engineering programs and leadership of engineering professional organizations.

NSF Awards \$3M for Next Generation Internet Research By Professor Saadawi and Partners



As work on advancing the Internet progresses on different fronts globally, a \$3 million National Science Foundation (NSF) grant to four partners,

including Grove School of Engineering Professor Tarek N. Saadawi, ensures City College's participation. Saadawi and his team will collaborate with lead institution Columbia University, as well as Rutgers University and the University of Arizona, in a three-year project to establish a global Internet testbed for the next generation of Internet.

The project enables the use of unique programmable wireless, optical, and edge-cloud network testbed infrastructure for international collaborative experiments.

This is the second NSF grant to CCNY in less than three years for enhancing the Internet. In fall 2018, City College was awarded \$450,000 in partnership with Japan's Kuytech Institute to develop ways of safeguarding the Internet from cyber attacks.

Saadawi, who was involved in that grant, too, is an expert in telecommunications networks security, high-speed networks, multimedia networks, mobile ad-hoc networks and transport layer protocols. He directs CCNY's Center for Information Networking and Telecommunications (CINT), and is co-founder of the Institute of Electrical and Electronics Engineers (IEEE) Symposium on Computers and Communications. The IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

Professor Hao Su Leads \$3M NSF Perceptive and Adaptive Soft Wearable Robot Project



Assistant Professor of Mechanical Engineering Hao Su, a robotics specialist, heads an interdisciplinary team of experts from three universities in a \$2.78 million National Science Foundation (NSF) project to develop a perceptive and adaptive soft (PECASO) wearable robot. Dubbed "The Future of Work Program," it could lead to improved employment opportunities for workers with upper body disabilities.

Su's eight-member team, which will also study labor economics and policy implications of assistive robots, comprises faculty from New York University, Rutgers University and CUNY.

They will work on Su's proposal, entitled "Improving the Future of Retail and Warehouse Workers with Upper Limb Disabilities via Perceptive and Adaptive Soft (PECASO) Wearable Robots," over four years. The project will develop new enabling robotic technologies, study computer vision-based multi-modal human intention detection, and learning-based control of wearable soft robots to enhance the physical capabilities of people with impaired upper limbs, bettering their employment prospects.

Su estimates that there are nearly 20 million people aged 15 and over in the U.S. with upper-limb impairments making them unable to join the workforce. He noted that the economic cost of low employment among people with disabilities has not been well quantified, but given that Social Security Disability Insurance alone costs close to \$5 billion per month, the total cost of lost output plus government disability income easily runs into tens of billions of dollars per year.

A leader in exoskeleton research and development, Su directs the Biomechanics and Intelligent Robotics Lab in the Grove School of Engineering.

Parra and MSK receive \$4M from NIH for Machine-Learning Breast Cancer Screening



The City College of New York and Memorial Sloan Kettering Cancer Center (MSK) are the recipients of a \$4 million grant from the National Institutes of Health to use machine-learning for early breast cancer detection in high-risk women. The five-year project will analyze 100,000 breast exams from MSK, as well as data from Duke University and Johns Hopkins University.

The project, "Machine Learning for Risk-adjusted Breast MRI Screening," is co-led by Lucas C. Parra, Harold Shames Chair and Professor of Biomedical Engineering at CCNY, and Elizabeth J. Sutton, MD, Associate Member in MSK's Department of Radiology and breast imaging specialist.

The project will leverage modern machine learning techniques to analyze medical images, an area of expertise for Parra. The goal will be to detect breast cancer as early as possible while limiting the burden of screening in high-risk women.

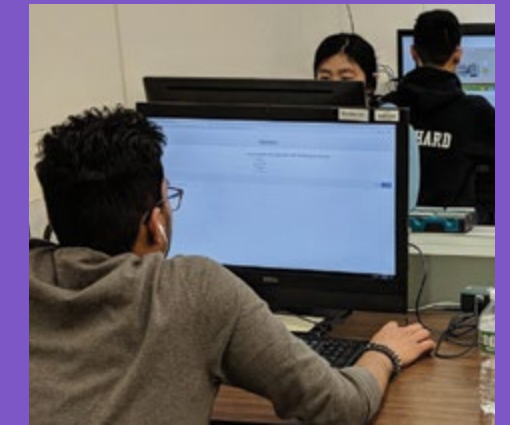
Risk will be estimated from magnetic resonance images (MRI) of the breast, as well as mammograms using deep learning techniques – a type of machine learning that emulates learning in the human brain through many layers of processing. A retrospective analysis of a very large dataset will determine if some women could have avoided unnecessary scans without missing newly developing cancers.

MRI is currently the most sensitive imaging modality for breast cancer diagnosis. Women with a strong family history or related genetic mutations have an elevated risk of breast cancer and are recommended to participate in yearly screenings using this technology. However, the rate of detection in this high-risk cohort is small, prompting a desire to reduce unnecessary MRI exams.

The collaboration between CCNY and MSK has benefitted from the appointments of Parra as affiliate faculty at MSK, and CCNY physicist Hernan Makse, an early contributor to the project.

Since 2002, the CCNY-MSKCC Partnership has endeavored to produce future cancer researchers and can count an 83 percent success rate in trainees that go on to pursue higher academic tracks. This partnership has now been extended for five more years, thanks to a \$14 million NIH grant.

Student Attention Measured During Remote Learning By Madsen and Parra



The Covid-19 pandemic has made home offices, virtual meetings and remote learning the norm, and it is likely here to stay. But are people paying attention in online meetings? Are students paying attention in virtual classrooms?

Professors of Biomedical Engineering and Researchers Jens Madsen and Lucas C. Parra demonstrated how eye tracking can be used to measure the level of attention online using standard web cameras without the need to transfer any data from peoples' computers, thus preserving privacy.

In a paper entitled, "Synchronized Eye Movements Predict Test Scores in Online Video Education," published in the "Proceedings of the National Academy of Sciences" ("PNAS"), they show that just by looking at students eyes they can predict how well students will do on quizzes based on educational videos.

The team was able to show that inter-subject correlation of eye movements during educational video presentation is substantially higher for attentive students, and that synchronized eye movements are predictive of individual test scores on the material presented in the video.

Their results suggest that online education can adapt to a student's level of attention in real time.

Engineer Xi Chen and Partners Create New Shape-Changing Crystals



Imagine harnessing evaporation as a source of energy or developing next generation actuators and artificial muscles for a broad array of applications. The creation of shape-changing crystals by an international team of researchers at CCNY could make these things possible. Assistant Professor of Chemical Engineering Xi Chen, and his co-authors at the CUNY Advanced Science Research Center, created the shape-changing crystals that enable energy transfer from evaporation to mechanical motion. The study, “Mechanistic Insights of Evaporation-induced Actuation in Supramolecular Crystals,” appears in the journal “Nature Materials.”

Different from traditional crystals that are usually stiff and brittle, the new crystals have the ability to change their shapes, enabled by their molecular architectures. The crystals are comprised of a pattern of small pores that is interspersed with connecting flexible domains that are repeated throughout the crystal structure. The pores that run throughout the crystals strongly bind to water molecules.

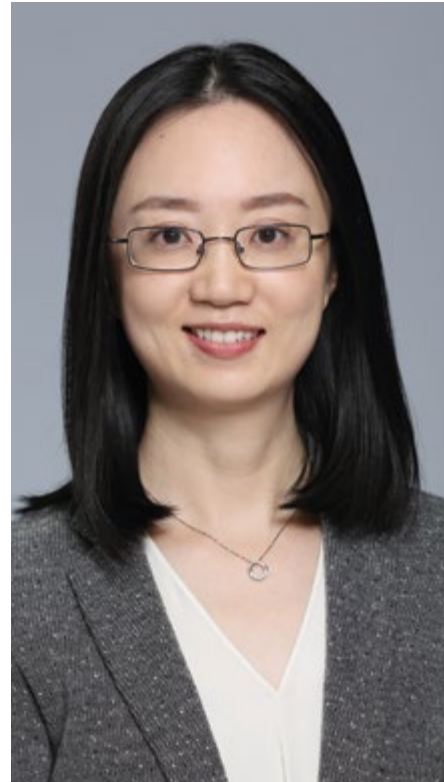
Materials that drive these motions are known as water-responsive or humidity-responsive materials. These materials, that swell and contract in response to changes in humidity, could directly and efficiently convert energy from evaporation into mechanical motions.

This new field opens up possibilities for accessing untapped water evaporation as a source of energy as well as developing better actuators and artificial muscles for modern engineering systems.

The research was co-led by Rein V. Ulijn of Hunter College and the Advanced Science Research Center at the Graduate Center, CUNY, and Tell Tuttle of University of Strathclyde, Scotland. Researchers from CUNY, University of Strathclyde, and New York University were also involved in the research.

Support was provided by the Office of Naval Research through the Biomaterials and Bionanotechnology program, the Air Force Office of Scientific Research, the National Science Foundation, and the United Kingdom’s Engineering and Physical Sciences Research Council.

Professor Jing Fan Earns NSF CAREER Award to Develop Dual Gel Materials



Assistant Professor and Mechanical Engineer Jing Fan is the recipient of a National Science Foundation (NSF) CAREER Award. The \$546,626 award over five years is for her research project, “Microfluidic Development of Dual-gel Culture Matrices for Studying Effects of Interstitial Flow on Cellular Behaviors.”

Fan’s research interests lie primarily in the areas of soft materials and complex fluids. Her

CAREER project will develop new tissue-mimetic, “dual gel” materials as cell culture matrices that allow for independent control of relevant biophysical and biochemical properties, such as matrix permeability, stiffness, confining pore size, and cell-binding site density. The project will also use the new biomaterials to study the effects of interstitial flow on cancer cell migration. Other research activities in her group include studying dispersed flow in porous media, structure and stabilization of foams and emulsions, and developing functional micro materials.

Prior to joining CCNY in 2016, Fan was a postdoctoral fellow at Harvard University, working on microfluidics for materials production and flow in porous media. She earned her PhD from The University of Hong Kong in 2012. Her study focused on volume averaging analysis in multiphase systems and computational fluid dynamics.

Fan’s research and service efforts have been recognized by several awards, including the ACS PRF Doctoral New Investigator award, the Hong Kong Young Scientist Award, the Li Ka Shing Prize, and the ASME Outstanding Reviewer award.

Fan is the sixth CCNY faculty to receive a NSF CAREER Award since 2018. Fan joins past recipients Dorthie M. Eisele, Ahmed Mohamed, Robert J. Messinger, Hao Su and Sriram Ganeshan.



Alexander Khanikaev Is First CCNY Engineer Elected to OSA Fellowship

Alexander Khanikaev’s groundbreaking research has earned him election as a Fellow Member of The Optical Society of America (OSA), the foremost professional association in optics and photonics, globally.

His honor is specifically “for pioneering contributions to topological photonics and novel photonic materials,” said Meredith Smith, Director, OSA Awards & Honors. Khanikaev’s photonics work in metamaterials – specifically in topological photonics – is considered by OSA as one of the most important breakthroughs in the field.

Khanikaev, whose affiliation includes the Graduate Center, CUNY, is the first engineer and the second City College physicist elected an OSA Fellow Member in less than a year. Vinod Menon, Chair of Physics in the Division of Science, was elected in November 2019.

Khanikaev is one of 118 new members from 24 countries in OSA’s 2021 Fellows Class. It includes scientists from universities and research centers across the globe. Fellow membership in OSA is limited to no more than 10 percent of the membership and is reserved for members who have served with distinction in the advancement of optics and photonics.

NSF Special Creativity Award Goes to Physicist Alexander Khanikaev

Pioneering Physicist Alexander Khanikaev can add the National Science Foundation’s most prestigious honor, the Special Creativity Award, to his list of accolades.

The honor from the Division of Materials Research (DMR) recognizes what the NSF cites as Khanikaev’s “excellent research, productivity, and impact on topologically nontrivial photonic systems and nonlinear photonic nanostructures and plasmonic metamaterials, as well as the broader impacts emanating from a current NSF project.”

Recipients of the award, who are considered the most creative of investigators, receive an automatic two-year extension of their grant in which the award-winning research was performed, and freedom to work on research topics of their choosing during the period of the extension. In Khanikaev’s case, that will also include \$300,000 in additional NSF funding for his project “Novel Aspects of Topological Photonics in Open Optical Systems: Non-Hermiticity and Fano-Resonances.”

Topological photonics, a relatively new subject of research pioneered by Khanikaev, promises to revolutionize approaches to manipulate electromagnetic waves from radio frequencies to optics, which can benefit a broad range of applications from lasers and telecommunications to quantum computing.

The Creativity Award recognizes nonorthodox approaches put forward by Khanikaev in his original proposal to control light to enable such novel applications and outstanding outcomes emanating from the project.

Hollander Fellowship Encourages Underrepresented Students to Study Landscape Architecture



City College and the Bernard and Anne Spitzer School of Architecture announced the establishment of the Hollander Design Fellowship. This three-year fellowship was established by Hollander Design Landscape Architects to encourage and support New York City students from demographics and communities that are historically underrepresented in landscape architecture to pursue the field.

“Landscape architecture is a profession that is felt at the community level, and all communities should have a voice in helping to shape the fabric of our lives outdoors,” said firm President Edmund Hollander, FASLA.

The fellowship is given to selected recipients enrolled in the Spitzer School who are pursuing a Master of Landscape Architecture. Candidates must be enrolled in the Landscape Architecture Master’s (MLA) program at Spitzer, and be in good academic standing (3.0 GPA or above). Students who are Black/African American, Latinx, Alaskan Native or American Indian, or other historically underrepresented cultural or ethnic groups in landscape architecture, are encouraged to apply.

Four Spitzer MLA graduates currently work at Hollander Design: Ashley Aaron ’15, Ryan Morrison ’14, Lara Friedmann ’14, and Anna McKeigue ’20.

“Transforming the profession begins in the academy,” said Professor Catherine Seavitt Nordenson, Director of the Graduate Landscape Architecture Program. “Our program is committed to challenging the entrenched biases and historical canons of landscape architecture that have too long been accepted as the norm. The Hollander Design Fellowship will significantly support the resonance of our students’ diverse voices in the field.”



Professor Catherine Seavitt Nordenson Elected ASLA Fellow

Professor Catherine Seavitt Nordenson, director of the Graduate Landscape Architecture program, is one of 35 American Society of Landscape Architects (ASLA) members elected ASLA Fellows for their exceptional contributions to the landscape architecture profession and society at large.

Election to the ASLA Council of Fellows is among the highest honors ASLA—the nation’s largest professional association of landscape architects—bestows on members. It is based on a member’s work, leadership/management, knowledge, and service.

Seavitt Nordenson and the other new Fellows were elevated to the Council during a special investiture ceremony at the November 2021 ASLA Conference on Landscape Architecture in Nashville, Tennessee.

Her previous academic appointments include lecturer at Princeton University; design critic at Harvard University; adjunct professor at the Cooper Union; Nadine C. Russell Visiting Chair at Louisiana State University; and Harry S. Shure Visiting Professor at the University of Virginia.

Her ASLA honor adds to her numerous accolades. She was a Fulbright Research Fellow to Brazil (2001-2002) and received the Rome Prize in Architecture from the American Academy in Rome, which took her to the Italian capital in 1997–1998.

Other awards she’s received include the J. B. Jackson Book Prize, for “Depositions,” from the Foundation for Landscape Studies (2019); President’s Medal for Service and Leadership from the ASLA New York Chapter (2018); ASLA National Honor Award in Communications for the landscape journal PLOT (2015); and the President’s Citation for Outstanding Alumni Achievement in Architecture from Cooper Union (2011).

Seavitt Nordenson has published extensively. Her books include, “Four Corridors: Design Initiative for RPA’s Fourth Regional Plan,” that she co-edited, “Roberto Burle Marx and Public Landscapes under Dictatorship,” and “Structures of Coastal Resilience,” as co-author. Her next book, “The Miasmist: George E. Waring, Jr. and the Sanitary Landscape,” is scheduled for publication in 2022 by the University of Texas Press.

She was the recipient of a \$250,000 Rockefeller Foundation/US Army Corps of Engineers grant in 2013 to develop “Structures of Coastal Resilience: Jamaica Bay” in parallel with the post-Hurricane Sandy USACE North Atlantic Coast Comprehensive Study. A \$90,000 grant from the Rockefeller Foundation/Regional Plan Association in 2017 funded the “Four Corridors” book and accompanying exhibition.

Underrepresented Backgrounds Make Up Large Percentage of CSOM Class of 2028



This year, applications to the CUNY School of Medicine at The City College of New York’s seven-year B.S./M.D. program increased, which was the case at medical schools across the country. The pandemic has greatly increased interest in medicine among prospective students.

The difference for the CUNY School of Medicine, which was established in 2016 as an expansion of the Sophie Davis School of Biomedical Education founded in 1973, is that applicants were not college seniors; they were 16 and 17-year-old high school students.

Out of the 980 applicants, 341 students were interviewed by Zoom, as COVID protocols prohibited in-person meetings this past year. Of those, 102 received admission letters to fill the target class size of 75 first year students, a selectivity rate of 10.4% of the original applicant pool. Exceeding the expected offer of admission

acceptances, 90 students agreed to attend, which created a yield of 88.2%.

Candidates for the B.S./M.D. Program graduating Class of 2028 are from backgrounds underrepresented in medicine (URiM)—defined as students from African American, Hispanic/Latinx and mixed-race backgrounds—the highest ever for the program at 76%.

The CUNY School of Medicine prioritizes diversity of the medical profession, and currently, 57% of its students are URiM, 62% who self-identify as female and 38% as male.

By comparison, a recent study by JAMA determined only about 16% of matriculated students in United States medical schools were from African American and Hispanic backgrounds.

Top Specialist Dr. Carmen R. Green Named CSOM Dean



While at U-Michigan, Green held several senior faculty positions including:

- Professor, Anesthesiology, Medical School
- Professor, Obstetrics and Gynecology, Medical School
- Professor, Health Management and Policy, School of Public Health
- Faculty Associate, Program for Research on Black Americans at the Research Center for Group Dynamics, Institute for Social Research
- Faculty Associate, Institute for Health Policy and Innovation
- The inaugural Associate Vice President and Associate Dean for Health Equity and Inclusion

Dr. Carmen Renee' Green, MD, a fellow of the New York Academy of Medicine, is the new dean of the CUNY School of Medicine (CSOM) at The City College of New York. She is the second dean of the Harlem-based medical school established in 2015 in partnership with Bronx-based St. Barnabas Hospital (a part of the SBH Health System).

The CUNY School of Medicine is an expansion of City College's Sophie Davis School of Biomedical Education, which was founded in 1973. The medical school houses a novel seven year BS/MD program and one of the oldest physician assistant programs in the U.S. It is the only school in the U.S. that has eliminated the MCAT as a barrier to access to medical careers and integrates medical education within the undergraduate curriculum. It is the only public medical school in Manhattan and is known for producing excellent and diverse health professionals who are leaders in providing primary care and serving in health professional shortage areas.

"The CUNY School of Medicine at City College is one of our great contributions to New York society and I am thrilled that it is poised to benefit from the visionary leadership of Carmen Green," said Dr. Vincent Boudreau, president of The City College. "Dr. Green comes at a pivotal time in our national deliberations about public health and the need to serve the whole people. Her background positions the School of Medicine to be a critical voice in that conversation."

Green joins CSOM from Michigan Medicine, the academic medical center of the University of Michigan, one of the world's premier research universities with 19 schools and colleges nationally ranked for excellence in education, research, and clinical care.

Green, tenured at U-Michigan, is a pain medicine physician and anesthesiologist.

At U-Michigan, Green completed an anesthesiology residency and pain medicine fellowship. She is considered one of the top pain doctors in the country by "U.S. News and World Reports" and a top doctor and anesthesiologist. She provided care for patients at Michigan Medicine's Back and Pain Center.

Green's health policy and research interests focus on pain, disparities, and the social determinants of health. She is also an expert in minority and women's health, aging, and diversity in academic medicine. Dr. Green was also the Director of the Healthier Black Elders Center at the NIH-funded Michigan Center for Urban African American Aging Research. Her published articles focused on the "unequal burden of pain" shouldered by minorities and race-based disparities in hospital security calls, and are considered foundational.

A graduate of U-M Flint, BS and Michigan State University College of Human Medicine, MD, Green is a member of Alpha Omega Alpha National Medical Honor Society. As a Robert Wood Johnson Foundation Health Policy fellow at the National Academies, she worked in the US Senate on the Health Education Labor & Pensions Committee and the Children & Families Subcommittee where she was instrumental in developing the National Pain Care Policy Act, included in the Affordable Care Act and passed by the US Congress (2010).

Among Green's numerous honors for community and scientific service are the John Liebeskind Pain Management Research Award and the Elizabeth Narcessian Award for Outstanding Educational Achievements. She was the inaugural Mayday Pain and Society fellow, a Hedwig van Ameringen Executive Leadership in Academic Medicine fellow, and a fellow of the Gerontological Society of America. She serves on advisory boards for the NIH, US Secretary for Health and Human Service, and American Cancer Society and is frequently invited to speak to national and international audiences including at the Rockefeller Foundation's Bellagio Conference Center in Italy.

Green will also be the Anna and Irving Brodsky Medical Professor and Professor in CCNY's Colin Powell School for Civic and Global Leadership. Her appointment as CSOM Dean began in Oct. 2021.

Top Earnings for Graduates Keep SOE Programs Highly Ranked



City College's Early Childhood Education Program (ECE) ranks #4 in the United States among the top 85 most affordable programs, according to the 2020 rankings by Discover Early Childhood EDU, an independent resource for prospective educators seeking long-term employment.

A partnership between City College's Division of Interdisciplinary Studies and the School of Education, the ECE program offers a nationally accredited bachelor's degree in Early Childhood Education and leads to NY State teaching certification (Birth-Grade 2).

Discover Early Childhood EDU cites the CCNY program for training students to be effective teachers "through learning and understanding child development and behavior, as well as the needs of diverse learners, child diversity, ethical and responsible decision making, and child welfare." It also notes that many program participants go on to complete a master's degree.

Other highlights of the program include an 83% retention rate, a student faculty ratio of 14 to 1, average salary of \$71,000 for graduates, and a 10-year Return on Investment (ROI) of \$696,412.

The ECE program was also recently ranked in the top 3% of the top 25 Early Childhood Education programs by the Bachelor's Degree Center.

The School of Education was also lauded earlier this year by GradReports which placed both the SOE's Special Education and Educational Leadership graduate offerings in the top 10 in the US in its 2020 rankings of "Best Colleges for Earning Potential." Out of the top 24 colleges that offer a Master's Degree in Special Education, based on median salary one year after graduation, CCNY was #6. SOE alumni earn a median salary of \$64,000 once they leave City College.

The Master's in Educational Leadership is also a national leader in producing top earners in the field. It's ranked eighth best among the top 25 schools based on median salary one year after graduating from college. SOE graduates make an average \$91,600.

Intelligent.com ranks the Educational Theatre program among the top 50 Master's in K-12 Education Degree Programs.

Lamboy Named School of Education Dean



Dr. Edwin M. Lamboy, a scholar of the Spanish language, is the new Dean of the School of Education (SOE) after having served as interim Dean since February 2020.

“Dean Lamboy was chosen as interim Dean based on the exceptionally strong support of his colleagues in the School of Education. During the 15 months I’ve had the pleasure of working with him in his interim capacity, I grew to understand and share the admiration for his leadership,” said City College Provost Tony Liss.

A native Spanish speaker, Lamboy joined CCNY in 2008 as an associate professor of Secondary Spanish Education and Spanish Linguistics, and as the director of the Secondary Spanish Education Program. He served as SOE interim Deputy Dean from 2016 to 2018.

Before coming to CCNY, Lamboy taught at the University of Central Florida (2006-2008) and Montclair State University (1999-2006). He received Outstanding Teaching and Outstanding Faculty awards at Montclair State in 2006 and 2003, respectively. Lamboy earned a PhD in Hispanic Linguistics (2000) from Pennsylvania State University. He also holds an MS Ed in Secondary Spanish Education from Lehman College and a BA from the University of Puerto Rico at Río Piedras.

His publications include “Spanish across domains in the United States: Education, public space, and social media,” co-edited with F. Salgado-Robles; “Spanish in bilingual and multilingual settings around the world,” co-edited with Gregory Thompson; and “Caribbean Spanish in the metropolis: A study of the Spanish language among Cubans, Dominicans, and Puerto Ricans in the New York City area.”

School of Education’s Centennial Celebrates “Educating for Democracy in a Diverse World”



The year was 1921 and the world was still reeling from the Spanish Flu epidemic that claimed 50 million lives, including nearly 700,000 Americans, in the previous three years. And, that same year, two major events occurred at City College.

In April, the great physicist Albert Einstein stood before an enthusiastic audience at City College and delivered his first-ever lecture in the United States.

Later that year, the School of Education (SOE) was established, opening a new chapter in pedagogy at CCNY. The SOE was an expansion of the Department of Education that had been created in 1906 and initiated the first degree-granting evening program in the country. Before that, CCNY’s Philosophy Department had offered elective courses in pedagogy since the 1800s.

Flash forward to Thursday, March 25, 2021. Amid another pandemic, CCNY kicked off its School of Education centennial celebration. Linda Darling-Hammond, the noted academic and founding president of the Learning Policy Institute, gave the keynote address, “Educating for Democracy in a Diverse World,” which was also the theme of the centennial observance that ran through the fall.

The SOE has enjoyed numerous milestones since it was established a century ago, with Paul Klapper as dean and a faculty of nine, offering 12 courses in areas such as kindergarten, pre-school, leadership and special education.

In the early 1930s, the School reorganized its courses on methods of teaching in the elementary school to reflect the influence of progressive education. Historian Max Yergan, an African-American, developed and taught the course “Negro History and Culture,” the first such course offered in any of the city colleges. The SOE later offered the pioneering course “The Teacher and the Community: Meeting the Needs of Children of Puerto Rican Descent.”

Educator Kleyn Leads \$6M CUNY-IIE Project to Uplift Immigrant Communities

We work together to

- Learn about current immigration issues
- Act in ways that center our collective humanity
- Advocate for equitable policies for all people regardless of immigration status

CUNY-IIE’s leadership team [clockwise from the top] Tatyana Kleyn, Nancy Stern, Ariana Mangual Figueroa and Cynthia Nayeli Carvajal.

CCNY is now helping steer a unique \$6 million state-funded City University of New York (CUNY) project, intersecting education and immigration, in the world’s most diverse city. With a student body representing more than 150 nationalities, City is one of the most diverse campuses in the nation.

Educator Tatyana Kleyn, faculty member in the CCNY School of Education’s programs in bilingual Education, is principal of the five-year CUNY-Initiative on Immigration and Education (CUNY-IIE) supported by the New York State Department of Education.

Nancy Stern, also faculty member of the Bilingual Education and TESOL programs, is co-principal with Educational Anthropologist Ariana Mangual Figueroa of the CUNY Graduate Center.

Cynthia Nayeli Carvajal, an educational leadership researcher, serves as project director. The entire team includes educators and activists from across New York State.

“CUNY-IIE is a project that works at the intersection of immigration and education to learn, act, and advocate for equitable educational opportunities and policies for immigrant communities in New York State and beyond,” said Kleyn, who works with undocumented youth as an advisor to the CCNY Dream Team.

A collaboration of CUNY educators, researchers, families and community leaders, the project aims to improve the lot of all, regardless of immigration status, using education as a tool.

In its first year, CUNY-IIE produced professional development materials for a four-part video series, which provides information and illustrates successful practices that educators are enacting to create safe and welcoming environments for immigrant students and families.

The professional development units each feature a set of activities to help educators understand the immigration realities of their students, families, and communities, to take actions both in and outside their classrooms, and to advocate for equitable policies, especially amidst the current anti-immigrant political climate.

In addition, New York State educators will be offered professional development workshops where they can earn Continuing Teacher and Leader Education (CTLE) credits free of charge, said Kleyn. “We will also be working with 10 CUNY-IIE partner schools around the State to support professional learning, engage in data exchange and develop immigration and education-focused action projects,” she added.

Other targets created by the CUNY-IIE are to develop a framework for immigrant liaison positions in K-12 schools to create a pipeline between secondary and tertiary education, to create short films and a report about current and future New York educators who are presently undocumented or recipients of DACA, and to host a virtual CUNY-IIE speakers series.

For Kleyn, her role in the CUNY-IIE project is a progression of her strong advocacy for immigrants. Her previous work includes the documentaries “Una Vida, Dos Países: Children And Youth Back In Mexico” and the “Living Undocumented Series” on the plight of undocumented youth in New York and return migration between the US and Mexico.

Materials are available to download for free on the CUNY-IIE website for educators to access: www.cuny-iie.org

Award-winning Visual Artist Hajoe Moderegger Receives Fulbright



Visual artist and Associate Professor Hajoe Moderegger, program director of the Digital and Interdisciplinary Art Practice (DIAP) MFA program in the Division of Humanities and the Arts, has been awarded a Fulbright Scholarship to Hong Kong.

Although Moderegger is the recipient of a 2020-2021 award, the start date has been deferred to January 2021 due to the Covid-19 pandemic.

The artist seeks to explore whether the codes of an old, traditional craft can coexist with, and influence, the new code of digital devices, interfaces, storytelling, image and sound making.

“Through cultural and theoretical research, and the production of a cyborg opera in collaboration with a traditional puppet master, I want to understand and communicate how analog tools (mechanical puppets) exist in relation to digital tools (handheld devices, drones and 360 video),” said Moderegger. “I believe that connecting both technologies, their languages, stories and operating skills can show the ways the old and new depend on each other, engage with our minds and bodies to provide insight into our intricately varied and constantly evolving humanness.”

Moderegger is one half of the award-winning collaboration “eteam” with his wife Franziska Lamprecht. Since 2001, eteam has operated at the intersection of relational aesthetics, the Internet and land art. Their projects have been featured at PS1 NY, MoMA NY, MUMOK Vienna, the Centre Pompidou Paris, Transmediale Berlin, the Taiwan International Documentary Festival, the New York Video Festival, the International Film Festival Rotterdam and the 11th Biennale of Moving Images in Geneva.

Eteam has received grants and commissions from Art in General, NYSCA, Rhizome, Creative Capital and, in 2010, a John Simon Guggenheim Memorial Foundation Fellowship. Eteam’s latest publication, “Grabeland: a novel” (Nightboat Books, 2020), was published in January 2020.



PBS Picks Up Documentary “Savage Land” By Filmmaker Campbell Dalglish



Associate Professor of Film Campbell Dalglish’s latest documentary, “Savage Land,” is being aired by the Public Broadcasting Service (PBS) for a two-year run that started in commemoration of Native American Heritage Month in November. The film, which premiered at The Americas Film Festival of New York on June 25, 2021, examines the shooting death of 18-year-old Cheyenne Arapaho Mah-hi-vist Red Bird Goodblanket in his family’s kitchen by the Custer County Police on Dec. 21, 2013 in Clinton, Okla.

Dalglish and his co-director Henrietta Mann, a Native American Studies Endowed Chair scholar, reconstruct the events leading up to and culminating in the killing.

They use actual footage and audio of the shooting, as well as interviews with witnesses, Goodblanket family members, and activists. The manner of filmmaking provides historical context for the discrimination and racism experienced by Native Americans that continues to the present day.

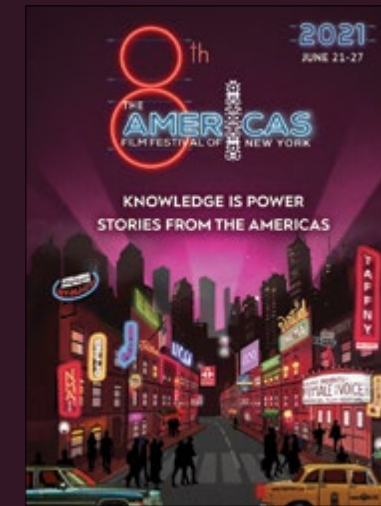
The film also explores deeper issues affecting Native Americans that stem from the forced relocation of 39 tribes more than a century ago to what is now the state of Oklahoma.

Thirteen City College students took part in the project during the eight years it took to complete. Students learned about the ethics and practices of ethnographic filmmaking at the Cheyenne and Arapaho Tribal College in Weatherford, Okla.

The film project began with a \$50,000 City SEED grant in 2012, shared with City College Anthropology Professor Lotti Silber, and was completed by virtue of a CCNY fellowship in 2018.

Dalglish has been interested in chronicling the Spirit Roads of Native American Indians since he visited a sacred petroglyph on the Hopi Reservation in Arizona in 1972. That interest – buttressed by Campbell’s immersion in various tribal cultures over the past half-century — has molded the documentary and narrative filmmaker’s career, for which he has won numerous awards and accolades.

Eighth Annual TAFFNY Festival Showcases “Knowledge Is Power”



The eighth annual Americas Film Festival New York (TAFFNY) opened its Virtual Cinema for the second year in a row, offering viewers the opportunity to enjoy and celebrate the rich diversity of stories, languages and cultures of the Americas from the comfort of their own home.

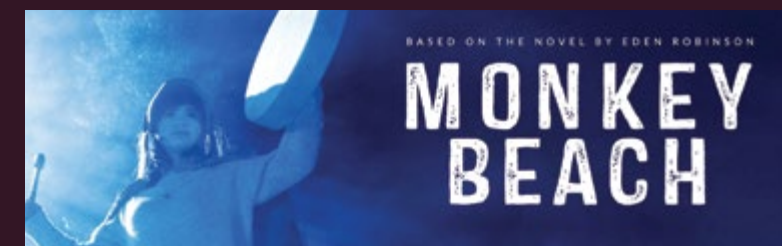
A cultural initiative of the Division of Interdisciplinary Studies at the Center for Worker Education of the City College of New York (CWE), TAFFNY ran online June 21-27. CWE Dean Juan Carlos Mercado spoke about TAFFNY as a platform to continue CWE’s mission – to create bridges of understanding between the various cultures that make up its student body with the stories and filmmakers of The Americas.

Six feature films and more than 25 shorts were screened free of charge. Artistic Director Diana Vargas, referring to this year’s motto, “Knowledge is Power,” said, “We want to highlight the work that filmmakers make to discover and provide different angles and facets of historical events that as human beings it is up to us to understand.”

Oscar Award-winning director Juan José Campanella’s “The Weasels’ Tale (El cuento de las comadrejas)” was the festival’s curtain-raiser on June 21. The film is a biting satire about a group of eccentric film veterans from Argentina’s Golden Age of cinema. A beautiful starlet, an actor in the twilight of his life, a witty screenwriter, and a cunning director live together, and have their lives turned upside down when their shared house becomes the target of young real estate developers. The elderly inhabitants band together to conspire to drive the developers away in order to keep their home.

Director Loretta Todd’s debut feature film “Monkey Beach” closed the festival on June 27. Based on Edna Robinson’s eponymous novel, the character After Lisa, played by Secwépemc actor Grace Dove, is served notice by her cousin’s ghost to return to her native village. She sets out on an epic journey to save her brother, and contends with the mystical creatures lurking in the woods nearby. After the screening, an interactive Q&A with Todd and Dove was live streamed on TAFFNY’s Facebook and YouTube pages.

TAFFNY 2021 also paid tribute to City College’s MFA Film Program with a showcase of selected student-made short films, and the NY premiere of the incisive documentary “Savage Land” by award-winning playwright, screenwriter, director and CCNY Professor Campbell Dalglish. “Savage Land” examines the shooting death of 18-year-old Cheyenne Arapaho Mah-hi-vist Red Bird Goodblanket in his family’s kitchen by Custer County, Oklahoma Police on Dec. 21, 2013 in Clinton, Okla. In commemoration of Native American Heritage Month, in November, the film airs for a two-year run on Public Broadcasting Service (PBS).



THE FILM AWARDS

The Americas Award was given out to six nominees in a virtual ceremony attended by Mercado and Vargas, as well as jurors and winners. The following films won:

- Best Fiction Short Film: “Nosotros Las Bestias” by Marcelo Landaeta / Bolivia
- Best Documentary Short Film: “Minka De La Memoria” by Luis Cintora / Peru
- Best Animation Short Film: “El Arbol Ya Fué Plantado” by Irene Blei / Argentina
- Best Experimental Short Film: “Small Hours” by Marcelo Sanhueza / Chile
- Special Jury Mention: “Guerra, Tiza, Tiempo; Ausencias Recuperadas” by Philippine Sellam / Argentina
- Special Jury Mention: “Today You, Tomorrow Me” by Christopher Neal / USA

Ganeshan Wins \$500K NSF Award For Quantum Hydrodynamics Research



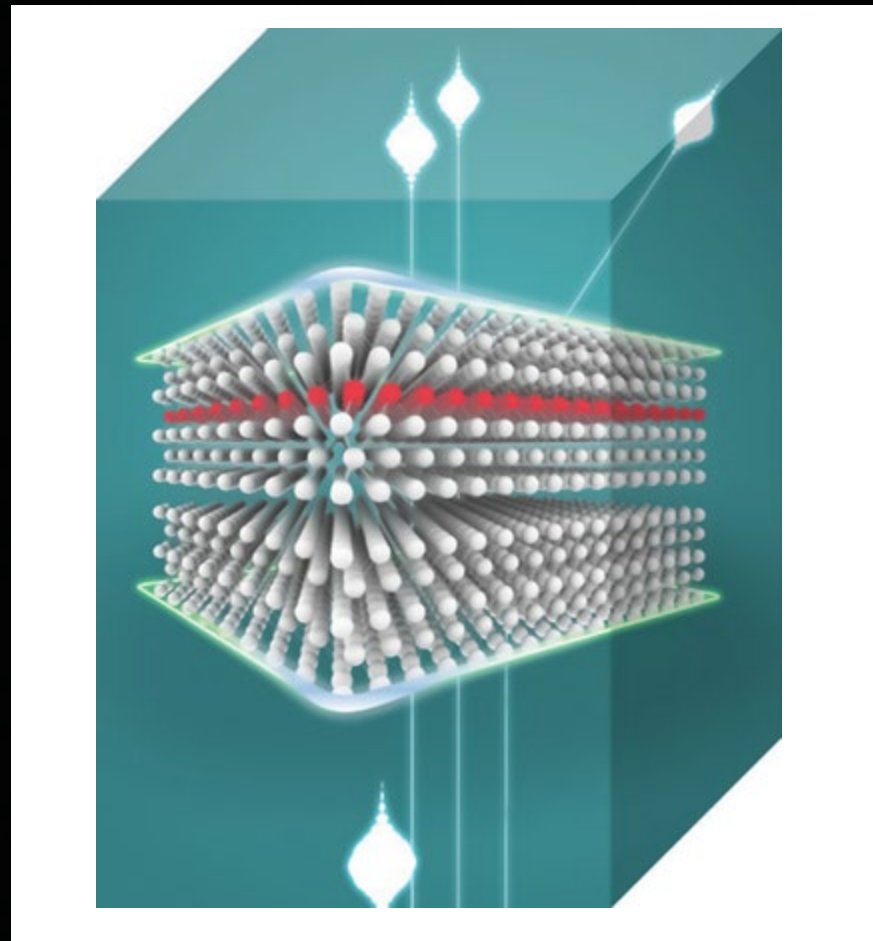
Physics Assistant Professor Sriram Ganeshan was given the National Science Foundation (NSF) CAREER Award which provides more than \$500,000 for his research project, “Quantum Hydrodynamics: From Electron Fluids to Chiral Active Matter.” His research could help develop new technologies based on the collective behavior of quantum systems.

Ganeshan and his research team will focus on developing “quantum modifications” to the classical hydrodynamics that capture the unique properties of the macroscopic quantum state. His effort in this direction will build towards a long-term goal to develop a general semiclassical theory of certain quantum fluids.

Ganeshan is the second CCNY researcher to earn an NSF CAREER Award in 2020. The first was Assistant Professor of Mechanical Engineering Hao Su, who heads an interdisciplinary team of experts from three universities in a \$2.78 million NSF project to develop a perceptive and adaptive soft (PECASO) wearable robot.

The NSF’s Faculty Early Career Development (CAREER) Program is a Foundation-wide activity. It offers the NSF’s most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. Activities pursued by early-career faculty should build a firm foundation for a lifetime of leadership integrating education and research.

Krusin-Elbaum and Team Create New Superlattice Material for Quantum Electronics



A team of international physicists led by Professor of Physics Lia Krusin-Elbaum has created a new topological magnetic superlattice material that at a high temperature can conduct electrical current without dissipation and lost energy. The finding, detailed in a paper published in “Nature Physics,” could be the basis of research leading to an entire new quantum materials class that can potentially provide a platform for error-free quantum computing.

The research centers on the Quantum Anomalous Hall Effect (QAHE) which describes an insulator that conducts dissipationless current in discrete channels on its surfaces. QAHE current does not lose energy as it travels and is therefore akin to a superconducting current. If industrialized, it has the potential to advance energy-efficient technologies.

Krusin-Elbaum and her graduate student, Haiming Deng, said they can advance this platform to other topological magnets. The ultimate goal would be to help transform future quantum electronics with the material.

The CCNY-based Harlem Center for Quantum Materials is a partner in the research. It strives to solve fundamental problems in novel functional materials systems that have vital scientific and technological importance.

The research is supported in part by the National Science Foundation.



Groundbreaking Quantum Researcher Meriles and CCNY Join Elite \$115M DOE-funded C2QA Project

A top producer of physics graduates nationally, City College is among 23 elite partner institutions in a five-year \$115 million Quantum Information Science (QIS) project led by the Long Island-based Brookhaven National Laboratory. The U.S. Department of Energy (DOE) funded project is one of five such QIS research centers being set up in the United States.

Brookhaven Lab will lead the Co-design Center for Quantum Advantage (C2QA), which will focus on quantum computing. Their goal is to achieve quantum advantage in computations for high-energy and nuclear physics, chemistry, materials science, condensed matter physics, and other fields. Quantum advantage refers to a quantum computer outperforming a classical computer on a useful task.

“Our work will leverage the expertise we have on defects in semiconductors (such as the nitrogen-vacancy center in diamond),” said groundbreaking researcher Carlos A. Meriles, Martin and Michele Cohen Professor of Physics, Division of Science. “We will be contributing to different fronts, starting with the use of these defects as local probes to investigate the physical properties of superconducting qubits and, ultimately, improve their properties. We will also explore alternative material systems hosting point defects that can serve themselves as qubits or as quantum memories of other, shorter-lived qubits.”

City College and other world class experts in QIS, materials science, computer science, and theory will work together to resolve performance issues with today’s quantum computers by simultaneously designing software and hardware (co-design).

“Supporting the National Quantum Initiative Act, these interdisciplinary, multi-institutional centers will facilitate the advancement of QIS technology. Realizing the full potential of quantum-based applications in computing, communication, and sensing will benefit national security, economic competitiveness, and leadership in scientific discovery,” announced the DOE.

CCNY’s fellow partnering institutions on C2QA include Columbia, Harvard, Princeton, Yale, Johns Hopkins and Howard Universities, and the Massachusetts Institute of Technology. The C2QA team also includes several national labs, research centers, and industry leaders.

Quantum Algorithm Advance by Ghaemi and Researchers

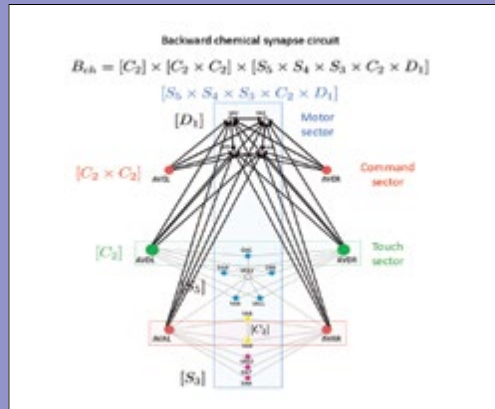


Researchers led by Physicist Pouyan Ghaemi reported the development of a quantum algorithm with the potential to study a class of many-electron quantum system using quantum computers.

Their paper, “Creating and Manipulating a Laughlin-Type $\nu=1/3$ Fractional Quantum Hall State on a Quantum Computer with Linear Depth Circuits,” appeared in the December issue of “PRX Quantum,” a journal of the American Physical Society.

Collaborators included scientists from Western Washington University, University of California, Santa Barbara, Google AI Quantum and the University of Michigan, Ann Arbor.

NIH Grants \$1M for Hernan Makse-led Complex Systems Research



Physicist Hernan Makse's quest to break down complex systems is the catalyst behind recent advances out of his Complex Networks and Data Science Lab at CCNY, including a COVID-19 digital contact tracing app in Latin America that uses network theory.

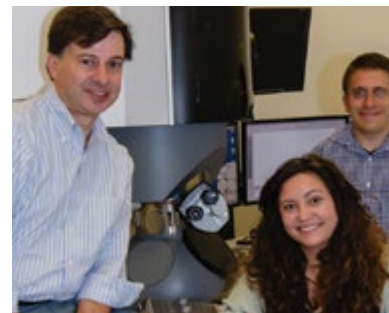
As the Makse group continues developing new emergent laws for complex systems, ranging from brain networks and biological networks to social systems, a new \$1,064,970 million grant from the National Institutes of Health (NIH) offers a boost.

The funding, over three years, supports a study entitled "Application of the Principle of Symmetry to Neural Circuitry: From Building Blocks to Neural Synchronization in the Connectome." It seeks to determine if the same symmetry principles that explain physics can be applied to the organizing principle of living systems. Makse and Manuel Zimmer, of the University of Vienna, lead the study.

The researchers will explore if permutation symmetries between neurons in the small (with 302 neurons) neural network of the *C. elegans* worm can describe the building blocks of the brain network and the functionality of its constitutive units.

"The results may open the way to understanding how information-processing networks, such as the brain, process information from the bottom up and has implications to design optimized artificial neural network architectures," said Makse.

Jeruzalmi Leads Student Researchers in DNA Repair Study Funded by NSF



A project led by Professor of Chemistry and Biochemistry David Jeruzalmi that engages students in DNA repair-related research is the recipient of a \$979,864 grant from the National Science Foundation (NSF). The support for the project, "Molecular Machinery of the Bacterial Nucleotide Excision Repair Pathway," will be for four years.

"One of the strengths of our proposal, which was highlighted by the NSF review panel, was our work in bringing undergraduates into research labs, and especially efforts to bring students from throughout City College into research projects with faculty," said Jeruzalmi. Undergraduates will play crucial supporting roles in the research carried out by CUNY doctoral students.

Jeruzalmi's research group studies two important mechanisms associated with processes organisms have evolved to replicate their genomes and defend them from attack. These are DNA replication and nucleotide excision repair. The group applies X-ray crystallography, supplemented with electron microscopy, to understand these long-standing problems in DNA biology.

"We also use biochemical studies to inform these approaches and follow up on the resulting insights," said Jeruzalmi.

Biologist Stefan Pukatzki Provides New Insights into Pandemic Strain of Cholera Microbe

Professor of Biology Stefan Pukatzki and co-author Francis J. Santoriello of the University of Colorado Denver's Department of Immunology and Microbiology, have uncovered a novel way in which *Vibrio cholerae*, the aquatic microbe that causes cholera, may increase its competitive fitness, and the likelihood of creating pandemic strains of the bacteria.

The study, "Pandemic *Vibrio Cholerae* Shuts Down Site-specific Recombination to Retain an Interbacterial Defense Mechanism," appears in the December 2020 issue of "Nature Communications," providing new insights into this devastating and deadly illness, which is particularly endemic in the developing world.

The finding was revealed by examining the type VI secretion system, or T6SS for short, a secretion system used by *Vibrio cholerae* to inject toxic proteins into neighboring bacterial cells, killing them and increasing its survival advantage.

The researchers studied a gene cluster within the T6SS called auxiliary cluster 3 (Aux3). The gene cluster exists in two states: one, which is highly mobile, is found in environmental strains of *V. cholerae*—these do not cause disease—and a second, which is a less mobile form of the gene cluster. This second, less mobile form of the gene cluster is "locked" in the pandemic *V. cholerae* genome and potentially helped create the pandemic strains.

CCNY Introduces Accelerated Post-Baccalaureate Pre-Med Certificate Program



CCNY's new accelerated Post-Baccalaureate Pre-Medical Certificate (PBPHC) Program is for career-changing individuals who have already earned a bachelor's degree and are seeking to enter the medical field. Students will be able to complete the academic prerequisites for admission to most medical schools in less than 18 months and at a competitive price. The inaugural cohort of students began classes in October 2021.

The COVID-19 pandemic played a role in the inception of the PBHC program.

"What COVID-19 has brought to the forefront in medicine are the profound healthcare disparities in communities across this country," said Belinda Smith, director of CCNY's Program in Premedical Studies. "What is clear is that we need an engaged, concerted, and diverse healthcare workforce to address those healthcare disparities. What is also clear is what post-bac's bring to the profession of medicine — passion, motivation and enthusiasm."

The program is broken down into six sessions with an optional seventh session, where students will have the opportunity to get ready for the Medical College Admission Test (MCAT) with an intensive prep course. Maria Lima, associate dean for research at the CUNY School of Medicine at CCNY, served on the board that revised the MCAT and will bring her expertise to the MCAT prep course.

"We have an incredible tradition of excellence in scientific research and teaching at City College. Throughout our history, we have proudly educated students for careers in medicine and that success continues to this day," said Susan L. Perkins, Martin and Michele Cohen Dean of CCNY's Division of Science.

"Offering this new, accelerated certificate program to individuals who have a non-scientific background, but who are driven to pursue their dreams of attending medical school is a natural next step for us."

Post-bac students will have many individualized services at their disposal, including assistance in clinical and research experience placement and guidance through the medical school application process.

Maria Tzortziou and Partners Receive NSF Grants for Pioneering Coastal Research



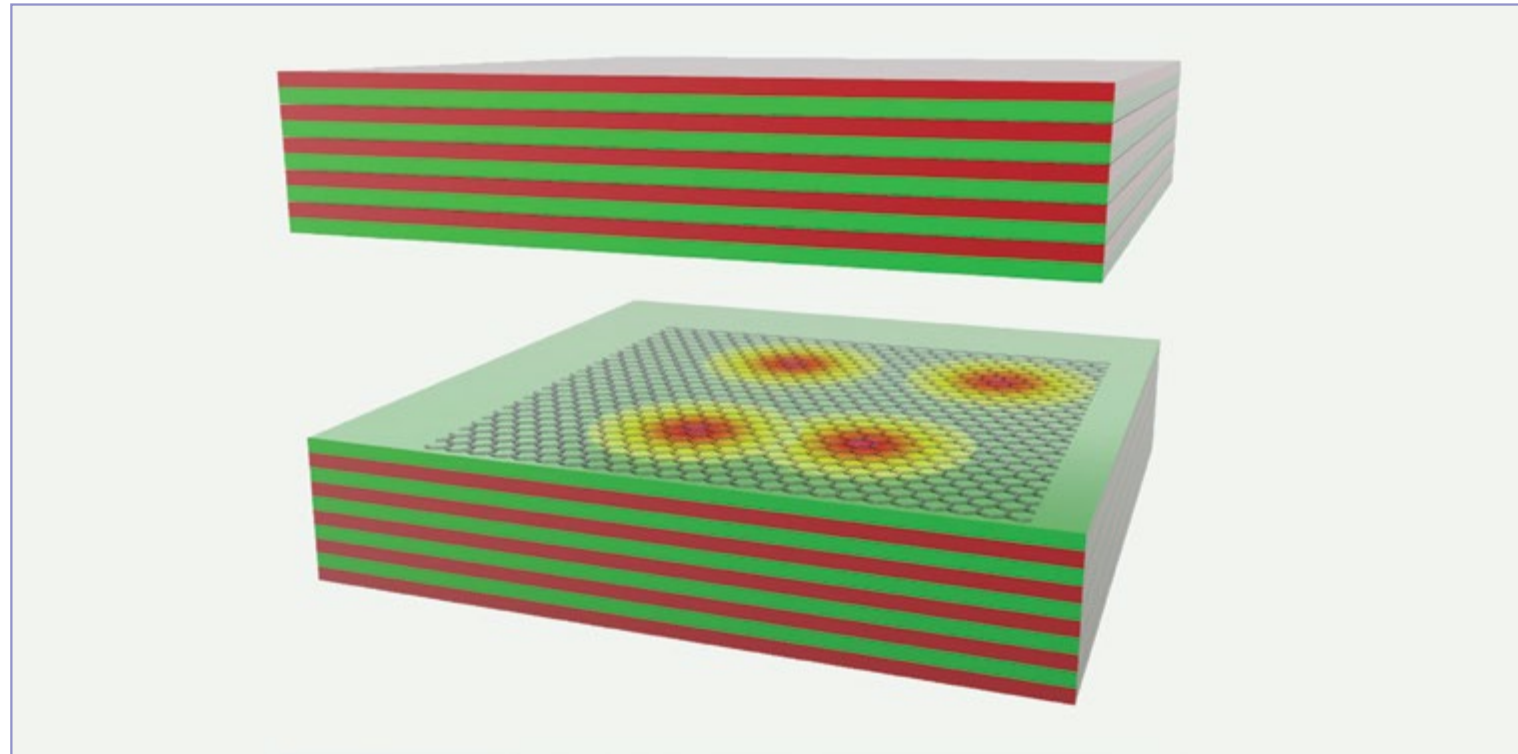
A novel study of possible COVID-19 related changes in coastal ecosystems is underway, supported by a one-year \$200,000 National Science Foundation (NSF) "Rapid Response Research Collaborative Research" grant to Division of Science Oceanic and Atmospheric Scientist Maria Tzortziou and her collaborator, Dianne Greenfield of the CUNY Advanced Science Research Center. A second NSF grant of \$576,000 over three years to the research team will enable a separate and unique interdisciplinary probe of urban ecosystems using an autonomous underwater vehicle (AUV).

Tzortziou's rapid response NSF grant is entitled, "Understanding Linkages Between Nutrient Quality and Phytoplankton Assemblage Responses to COVID-19 Stay-at-home Orders in an Urban, Estuarine System." It explores how reductions in atmospheric contaminants (particularly nitrogen) and improved air quality, due to COVID-19 restrictions on human activity, may be affecting the biogeochemistry and ecology of the Long Island Sound.

This multidisciplinary effort focuses on coastal and estuary aquatic habitats known to be particularly biologically productive and diverse. The project will also train postdoctoral scholars and graduate students, including those from underrepresented groups in the Division of Science, while enhancing the understanding of connections between societal activity and coastal ecosystems.

The second NSF grant of \$576,000, to Tzortziou, Greenfield and Cecilia Gonzalez-McHugh of Queens College, for the acquisition of an AUV, is to support cross-disciplinary research and education in coastal and urban waters. The AUV will enhance studies of the drivers, severity, and duration of hypoxia and algal blooms, fate and transport of pollutants and contaminants, sediment movement and benthic habitat, linkages between water optical characteristics and remote sensing results, and related questions. CUNY students, from undergraduates to postdocs, including underrepresented groups in STEM research and education, will also participate in the research.

Physicist Menon's Team Makes Single Photon Switch Breakthrough



The ability to turn on and off a physical process with just one photon is a fundamental building block for quantum photonic technologies. Realizing this in a chip-scale architecture is important for scalability, which amplifies a breakthrough by a team of researchers led by physicist Vinod Menon. For the first time, they've demonstrated

the use of "Rydberg states" in solid state materials (previously shown in cold atom gases) to enhance nonlinear optical interactions to unprecedented levels in solid state systems. This feat is a first step towards realizing chip-scale scalable single photon switches.

In solid state systems, exciton-polaritons, half-light half-matter quasiparticles, which result from the hybridization of electronic excitations (excitons) and photons, are an attractive candidate to realize nonlinearities at the quantum limit.

"Here we realize these quasiparticles with Rydberg excitons (excited states of excitons) in atomically thin semiconductors (2D materials)," said Physics Chair and Professor Menon. "Excited states of excitons owing to their larger size, show enhanced interactions and therefore hold promise for accessing the quantum domain of single-photon nonlinearities, as demonstrated previously with Rydberg states in atomic systems."

According to Menon, the demonstration of Rydberg exciton-polaritons in two-dimensional semiconductors and their enhanced nonlinear response presents the first step towards the generation of strong photon interactions in solid state systems, a necessary building block for quantum photonic technologies.

Jie Gu, a graduate student working under Menon's supervision, was the first author of the study entitled, "Enhanced Nonlinear Interaction of Polaritons Via Excitonic Rydberg States in Monolayer WSe₂," that appears in the journal "Nature Communications." The team also included scientists from Stanford, Columbia, Aarhus and Montreal Polytechnic Universities.

The research was supported by the Army Research Office, an element of U.S. Army Combat Capabilities Development Command (DEVCOM) Army Research Laboratory, through the MURI program and the National Science Foundation through the MRSEC program.

"The research of Professor Menon and his co-workers could have a tremendous impact on Army goals for ultra-low energy information processing and computing for mobile Army platforms, such as unmanned systems," said Dr. Michael Gerhold, program manager at the DEVCOM Army Research Laboratory. "Optical switching and nonlinearities used in future computing paradigms that use photonics would benefit from this advancement. Such strong coupling effects would reduce energy consumption and possibly aid computing performance."

Biologist Mark Emerson Receives Top National Mentoring Award



Mark Emerson, associate professor of biology, is the recipient of an Early Career Mentor Award from the Council on Undergraduate Research (CUR) Biology Division. The national honor recognizes exemplary biology mentors for their long-term efforts in supervising undergraduate researchers.

Emerson, whose long-term research thrust includes developing therapies for human blindness, is one of three mentors selected for the 2021 CUR Award.

Emerson earned a PhD in neurobiology from Harvard University and conducted his postdoctoral work at Harvard Medical School. His approach to mentoring diverse undergraduate researchers reflects each student's individuality and need for guidance while modeling a love of science. He has yielded 20 conference presentations with 47 undergraduate authors, 11 student honors, and 9 students enrolled in advanced degree programs.

Emerson also spearheads a science outreach program in which his undergraduates return to their middle schools to lead hands-on experiences, thereby equipping his students with mentoring skills and extending the mentoring model to future undergraduates.

CUR supports faculty development for high-quality undergraduate student-faculty collaborative research and scholarship. More than 700 institutions and nearly 13,000 individuals belong to CUR. CUR believes that the best way to capture student interest and create enthusiasm for a discipline is through research in close collaboration with faculty members.

Misty Thomas of North Carolina A&T State University and Maryann Herman from St. John Fisher College are the other two recipients. Seven other faculty nationwide received CUR Small Research Grants of up to \$250 each.

Professor Franco Leads Society of Physics Students Chapter to Earn National Award



For the third year in a row, the CCNY student chapter of the Society of Physics Students (SPS) is the recipient of an Outstanding Chapter Award from the SPS National Office. Physics Professor Sebastian Franco is the chapter's faculty advisor. Students Lisa Chan, Michael Gaziani and Veeshan Narinesingh are the officers leading the chapter.

Chan, the chapter's recent past president, said, "This recognition is a high honor for CCNY and for science achievement at the higher education level."

The accolade continues recognition of the chapter for its excellence as a top-tier student-led physical sciences organization, a designation given to fewer than 15 percent of all SPS chapters at colleges and universities in the U.S. and internationally.

Based in College Park, Md., SPS is a professional association designed for students. Membership is open to anyone interested in physics and related fields. SPS operates within the American Institute of Physics (AIP), an umbrella organization for professional physical science societies.

SPS Director Brad R. Conrad lauded Franco and the students, "To have your group named an Outstanding Chapter is a testament to your leadership skills and your ability to foster leadership among your students."

SPS chapters are evaluated on their level of interaction with the campus community, the professional physics community, the public, and with SPS national programs. The Outstanding Chapter Award recognizes high levels of outreach as well as unique approaches to fulfilling the mission of SPS to "help students transform themselves into contributing members of the professional community."

The City College chapter was recognized as outstanding for, among other things, its successful "Physics Month" activities between October and November 2019. Open to the campus community and the public, one of its primary goals is to attract prospective physics students to CCNY. The chapter has also reached out to more than 650 high school students.

CCNY is ranked by the American Institute of Physics as one of the top producers of physics graduates in the nation.



2021 CCNY Honorary Degree recipients Alondra Nelson (left) and Edward Blank (right). Nelson was also the Keynote Speaker.

Commencement 2021 Highlights

Alondra Nelson, an acclaimed researcher and author, who explores questions of science, technology, and social inequality, was the Keynote Speaker at The City College of New York's 168th Commencement on June 4. She received the honorary degree Doctor of Humane Letters.

A scholar of science, technology, medicine, and social inequality, Nelson is the Harold F. Linder Professor at the Institute for Advanced Study in Princeton, NJ, and president of the Social Science Research Council. She currently serves as Deputy Director for Science and Society for the White House Office of Science and Technology Policy.

Her award-winning writing has been translated into Arabic and French. Her books include "The Social Life of DNA: Race, Reparations, and Reconciliation after the Genome," and "Body and Soul: The Black Panther Party and the Fight against Medical Discrimination." She's co-editor of "Genetics and the Unsettled Past: The Collision of DNA, Race, and History." She is writing a book about science and technology policy in the Obama administration, as well as an essay collection, "Society after Pandemic," and about new research exploring the sociology of bioethics.

Nelson began her academic career on the faculty of Yale University, where she earned the Poorvu Prize for interdisciplinary teaching excellence. She was a professor of sociology at Columbia University, where she also served as the inaugural dean of social sciences. She has held visiting professorships and fellowships at the Max Planck Institute for the History of Science, the BIOS Centre at the London School of Economics, the Bayreuth Academy of Advanced African Studies, and the Bavarian American Academy. Her research has been supported by the Ford Foundation, the Andrew W. Mellon Foundation, the Alfred P. Sloan Foundation, and the National Science Foundation.

City College honored Edward Blank, '57, one of its distinguished alumni and a telemarketing trailblazer, with the honorary degree Doctor of Humane Letters.

Upon graduating from CCNY with a BA in economics, Blank attended NYU Graduate School of Business. He founded Edward Blank Associates, Inc. (EBA) in 1968 and served as its CEO. One of the first firms to use the telephone as a powerful direct marketing tool, EBA helped to define the industry through its innovations in training, quality control, technology, and data security. EBA became a top ten firm selling products and services from 13 call centers in the U.S. and Canada. Major clients included AT&T and Weekly Reader Children's Books. Prior to founding EBA, Ed held senior market research positions in media, advertising, and industry.

At his alma mater, Blank is a board member of the Foundation for City College and serves on its finance committee. In memory of his late wife, Dr. Sharon Cosloy, a renowned microbial geneticist and CCNY faculty member for 27 years, Blank endowed an annual scholarship to support undergraduate research, a Professorial Fund to recruit and support a faculty member whose research includes microbial genetics, and an annual lectureship which brings eminent scientists to CCNY.

He is active in various philanthropic organizations, including the National Board of the Jewish National Fund (JNF). He served as JNF's NGO Representative at the United Nations and under its auspices, funded a monument in Jerusalem, The 9/11 Living Memorial, dedicated to the victims of 9/11.

Best and Brightest of the Class of 2021



Valedictorian Matthew Romano

Matthew Romano, an honors student who overcame the stigma of autism to excel academically, was The City College of New York's Class of 2021 Valedictorian. The 22-year-old Bronx resident of Caribbean heritage graduated summa cum laude with a 3.99 GPA. He received a BA degree in English with a minor in education.

"The autism stigma, in no uncertain terms, dictated the spheres I could access and those I could only gawk at from a distance. For me, and many of my neurodivergent peers, our neurotypical counterparts always seemed a world away and higher education bore a 'do-not-enter' sign that we dared not trespass," Romano said, about his challenges. "It was only recently that I built up the courage to start undoing the straps of the straitjacket that's both cramped and cradled me for the first 22 years of my life. It's easy to lose sight of who you are when society only tells you who you're not."

Romano has been a student teacher since last fall at the Bronx High School of Science. There, he co-teaches ninth and 10th grade English classes designed for remote instruction to some of New York's highest achieving students.

He is a member of the NYC Men Teach initiative. Previously, Romano served as a teaching fellow in some of the highest-need schools across the Bronx. There, he developed his teaching philosophy centered around a curriculum that is rigorous, culturally and socially relevant, and promotes risk-taking.

His numerous honors at CCNY included The Peter F. Vallone Scholarship, The Andrew W. Mellon Foundation Grant, The Paul Roberts Memorial Scholarship, The Allan Danzig Memorial Award, The Stark Award for Essay in Literature, and The Dean's List. Romano was also vice president of the Teachers of Tomorrow club and a CCNY Admissions Ambassador.

Romano was inspired by CCNY's 174-year mission to serve "the children of the whole people."

"As a future educator, and proud alumni," he said, "I wear this motto both on my sleeve and near my heart to remind me of my ambition and purpose in becoming a teacher: to break barriers, extend 'access to excellence,' instill radical change, and broaden the scope of 'the whole people,' remembering to leave a deep enough imprint for others to follow."



Salutatorian Shilpa Ann Shaju

Shilpa Ann Shaju, from the William E. Macaulay Honors College at CCNY, was the Class of 2021 Salutatorian. A political science and international studies double major, minoring in legal studies, she graduated with a BA degree. Shaju was accepted to The University of California, Hastings College of the Law, in San Francisco, as a Legal Education Opportunity Program (LEOP) Fellow.

The daughter of Indian immigrants, Shaju said, "As a Skadden Arps Legal Fellow at CCNY, I learned that most clients in the American legal system feel voiceless and trapped in an unfamiliar process. I would like to pursue a legal education so that I can be a guide for, specifically, immigrants who feel this way in the legal system, and an advocate for changing the immigration process."

In addition to her studies in the Macaulay Honors College, Shaju worked as a legal assistant in the Manhattan law firm of Moumita Rahman, PLLC. Her responsibilities included immigration cases involving asylum, trafficking, hardship waiver and H1-B work visa applications.

"As a CCNY student, I understand how vibrant a space can become if we give others an opportunity. This is what I want to do with my legal career," said the New Hyde Park resident. "I want to open the door for others to have a chance to not only live in a safe country, but to be recognized in its law as well."

Shaju was the president of the Macaulay Pre-Law Club, secretary of the CCNY International Studies Club, and the 2019 summer intern in the office of New York State Senator Kevin Thomas, the first Indian-American to serve in the Senate.

Maillet Named USTFCCA All-Academic for 2nd Straight Year



Colin Powell School sophomore Avery Maillet has been recognized by the U.S. Track & Field and Cross Country Coaches Association (USTFCCA) as an All-Academic Athlete for 2020. This marks the second straight year in which Maillet earned USTFCCA All-Academic honors.

The psychology major (GPA 3.7) qualified for the NCAA Indoor Championships in the 200 meters and long jump. She was named All-American in both events, the second and third All-America nods of her career. The graduate of Oteora High School in Boiceville, N.Y. is now a two-time USTFCCA All-Academic selection, as well, having also earned the distinction in 2019.

Cassidy Canberg Named CUNYAC Women's Soccer Player of the Year



After helping lead the CCNY women's soccer team to their fifth straight postseason appearance, sophomore Cassidy Canberg was named the 2021 CUNY Athletic Conference Women's Soccer Player of the Year this past fall.

Canberg was the league's most dangerous striker during the regular season, leading the conference in points (34) and goals (14). The sophomore found the back of the net in eight games, including three multi-goal performances. One of her best performances came in a win over Old Westbury when she produced 12 points on five goals and two assists. At the time, her effort was the highest scoring output in all of NCAA Division III.

In addition, the women's soccer program had four student-athletes earn All-Conference recognition, including sophomore Nicole Magretta and freshmen MacKenzie Moreno, Charlotte Foberg, and Laura Villatoro.

The Beavers finished the season with a 7-7 overall record and advanced to the CUNYAC semifinals.

Women's Cross Country Program Earns 2nd Place Finish at CUNYAC Championships



The City College women's cross country team earned a second-place finish at the 2021 CUNY Athletic Conference Cross Country Championships at Van Cortlandt Park. The team finish was the program's highest team finish since 1996.

In all, the Beavers had five top-20 finishes, including two runners within the top-10.

Freshman Zara McPartland led the Beavers with a sixth-place finish in a time of 30:37.7. Freshman Kate Cortez was the next Beaver to cross the line, taking eighth overall in 31:20.5. Freshman Sandra Lu took 13th place with a time of 33:23.8.

Sophomore Nabila Jahan was right behind her, finishing 14th overall, clocking 33:40.1. Freshman Aakaysha Williams was next for CCNY in a personal-best time of 20:40.5 to place for 17th overall. Sophomore Israt Jahan finished 23rd overall with a personal-best time of 37:02.3.

The program continued to showcase their strong running, following their performance the following weekend with a ninth-place team finish at the 2021 ECAC Championships at Hudson Valley Sports Dome in Milton, N.Y.

The Beavers earned four All-Conference selections, with McPartland, Cortez, Lu, and Jahan being recognized by the conference.

Mellon Mays Fellowships Set Five Undergrads on PhD Path



CCNY's 2021 Mellon Mays Fellows (from left) Jamar Brown, Hawa Diallo, Abigale Garpestad, Elijah Matos and Bebel Nilo.

Five undergraduates, the 29th cohort since City College joined the exclusive nationwide program, are the latest recipients of Mellon Mays Undergraduate Fellowships (MMUF). The program's goal is to help increase diversity in the faculty ranks of higher education by identifying and supporting exceptional undergraduates from traditionally underrepresented groups. In its 32nd year nationwide, the MMUF program is open to colleges and universities by invitation only. Since 2001, support from the Andrew W. Mellon Foundation is credited for guiding more than a dozen talented CCNY graduates to PhDs in the humanities and social sciences. There are now 30 Mellon Mays Fellows from City College in PhD programs. City College hosted the 2021 Mellon Mays NY Regional Conference, which brought together approximately 100 participants from five other partner schools in New York City: Hunter College, Queens College, Brooklyn College, Barnard College and Columbia University.

Jamar Brown, Anthropology Major, CPS. A senior from Long Island, Brown's ethnographic research will be about how racialized communities make sense of the spaces they live in, and explore seeking liberation through abolition ecologies such as fresh air, clean water, and sustainable food.

Hawa Diallo, Black Studies Major. Diallo's research will focus on African immigrant communities and the entrepreneurship that exists within them. She will look at the ways African communities interact with native born Americans. Diallo lives in Crown Heights, Brooklyn.

Abigale Garpestad, Anthropology Major, CPS. The Staten Island resident will evaluate the Eurocentric gaze in a medical setting. Her research centers around how to safely and ethically build an integrative health care system where indigenous knowledge is recognized as operative and significant.

Elijah Matos, English Major and William E. Macaulay Scholar. A Brooklyn native, Matos will participate in summer research prep courses at the University of Chicago. His focus will be on the development of meaning and identity in postmodern literature.

Bebel D. Nilo, Black Studies Major. Nilo, from Brooklyn, will research Afro Diasporic music and its ties to liberation and insurrection, particularly the influence of Jamaican music and sonic inventions in Latin music.

Spitzer School Graduate Student Sharmin Receives AAUW Career Grant



Nusrat Sharmin, who graduated with an MA in urban design from the Bernard and Anne Spitzer School of Architecture in May, received a Career Development Grant from the American Association University of Women. The grant provides funding to women who hold a BA and are preparing to advance, change careers or re-enter the workforce in education, health, medical sciences or social sciences.

The \$12,000 grant enabled Sharmin to cover her tuition for the entire 2020-21 academic year. The award helped her to cover expenses associated with her family and child care while attending school full-time.

AAUW's mission is to advance gender equity for women and girls through research, education and advocacy.

Sharmin's research interest is sustainable urbanism, and her work focuses on developing a framework that promotes the well-being of human society as well as the preservation of the environmental elements for future generations.

National Udall Scholarship for Grove School's Ondrea Kanwhen



Ondrea N. Kanwhen, a junior in The City College of New York's Grove School Engineering with a passion for forging large scale renewable energy projects, is one of 55 students nationally selected as a 2021 Udall Scholar.

Supported by the Morris K. Udall and Stewart L. Udall Foundation, the highly qualified Scholars from 42 colleges and universities were picked based on their commitment to careers in the environment, Tribal public policy, or Native health care, leadership potential, record of public service, and academic achievement.

As an Udall Scholar, Kanwhen and her cohort will have access to the Udall Alumni Network, an association of change-makers, working in Indian country and environmental fields, sharing innovative ideas, professional advice, and job and internship opportunities.

Born in the U.S. of Liberian immigrant parents, Kanwhen is an electrical engineering major pursuing her second degree after previously earning a BS in international business and languages from the University of Tulsa. Her long-term goal is to start a renewable energy utility company to provide services to underserved communities.

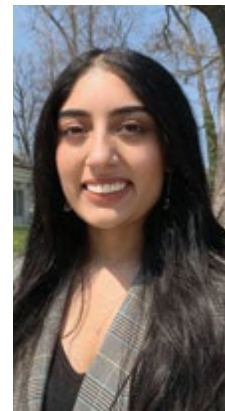
She is a researcher at the Smart Grid Interdependencies Lab focusing on incorporating resiliency and energy efficiency in the food-energy-water nexus. The Harlem resident is a certified solar installer and volunteers with Grid Alternatives to provide low-cost solar to low and moderate income households. As a Colin Powell Fellow at CCNY, she plans to pursue policy changes that improve the availability and affordability of renewable energy.

In addition to her coursework, Kanwhen is working on two research projects. One is analyzing the benefits of electrifying food distribution fleets serving Gowanus. The other is modeling energy resources at wastewater treatment plants and using those resources to supply a community microgrid.

Fulbright Awardees Travel Abroad

Aisha Fuenzalida Butt and Cassiady Perard join a select group of 2021-2022 winners in the Fulbright U.S. Student Program. Established in 1946 under legislation introduced by Sen. J. William Fulbright of Arkansas, the program's purpose is to build mutual understanding between the US and other countries. Scholars are selected on the basis of academic or professional achievement and demonstrated leadership potential in their fields.

Aisha Fuenzalida Butt



Fuenzalida Butt, who graduated as the Colin Powell School for Civic and Global Leadership's salutatorian on June 4 with a BA in Anthropology, left for Spain's Canary Islands in September on a Fulbright English Teaching Assistant (ETA) award that runs through June 2022.

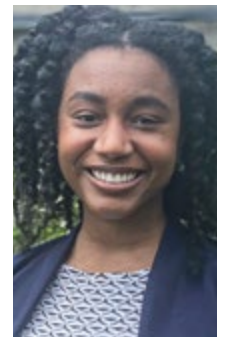
A Staten Island resident, Fuenzalida Butt is a Mellon Mays participant and a CPS Climate Policy fellow. The latter ignited her passion for environmental justice and mitigating the effects of climate change on marginalized communities.

"I plan to engage children in conversations in the classroom and community that make them think about their personal relationship to the environment and global effects of climate change," she said.

Fuenzalida Butt's Fulbright includes a community engagement component, and she hopes to participate in projects that focus on coastal climate change, pollution, and beach cleanups.

Upon her return, Fuenzalida Butt plans to pursue a PhD in anthropology, and explore conservation and community responses to climate change and environmental protections.

Cassiady Perard



Perard, an English literature major from the Class of 2020, is also the recipient of an ETA award. The daughter of Haitian immigrant parents, she arrived in French-speaking Benin in October and is teaching English to post-secondary school students through June 2022.

Perard was on the Dean's List and a member of the CPS Skadden Arps Honors Program in Legal Studies. She also served as a Student Senator for the CCNY Undergraduate Student Government from 2019-2020.

The Queens resident said, "It will allow me to explore the intercultural connections across the Black diaspora and engage in classroom discussion about migration and identity. I hope to gain international perspectives on education while also exploring my personal and cultural history within Benin."

Upon her return from Africa, Perard plans to earn her MA in public policy.

Grove School Graduate Michael Vera Wins GEM Fellowship



Michael Vera '21 won the highly competitive National GEM Consortium Fellowship that offers funding for a Master's program in structural engineering at New York University. He had already been accepted into Stanford and Columbia. Vera was number one in his class and graduated *magna cum laude*.

GEM fellowships fund MAs and PhDs in engineering for underrepresented students of exceptional quality who intend to work in industry. Each year, GEM identifies and recruits more than 1,000 undergraduate students, graduate students, and working professionals for admission to advanced degree programs at the nation's top universities. The National GEM Consortium combines graduate study and field-related internships to make GEM Fellows highly marketable upon graduation.

A first-generation college student, the Queens resident graduated from Grove with a BE in civil engineering. The GEM Fellowship capped an outstanding four years at CCNY for Vera, who worked more than 20 hours a week during his studies. He tutored SEEK students in math and engineering related courses. His national accolades include the National Association of Minority Contractors Scholarship, the Deep Foundation Institute's Educational Trust Scholarship and the Moles Scholarship.

He spent summer 2019 as a Research Fellow at Toyohashi University of Technology, in Toyohashi, Japan. There he participated in research using structural dynamics knowledge to quantify the seismic effect an earthquake acceleration has on different structural models.

Naresh Devineni, associate professor of civil engineering in the Grove School, described Vera's CCNY experience as an "incredible journey" defined by hard work and success, and commended Vera for giving back to CCNY through his SEEK tutoring.

Vera is the fourth Grove School student to receive a GEM Fellowship in the past three years. Wendy Fernandez was named a Fellow in 2019, and Lizzette Salmeron and Harold Gamarro were 2020 recipients.

Two Top Language Scholarships Awarded to Junior Angelina Coronado



Junior Angelina Coronado, an English literature major with multilingual skills, was awarded two major language scholarships this past summer. The Ridgefield Park, NJ, resident won a Critical Language Scholarship (CLS) from the U.S. Department of State to study Portuguese in Brazil, and she was chosen to attend the highly competitive Middlebury Language Schools' Immersion Program in Spanish.

Because dates of the two scholarships overlapped, Coronado, whose grandparents emigrated from the Dominican Republic, opted for the intensive seven-week Middlebury program, hailed as the summer home for some of the most talented teachers, scholars, and artists in the Spanish-speaking world. It ran from June 24 to Aug. 13 in Middlebury, Vt., and offered nine credits.

Coronado earned the Middlebury scholarship in the category for students enrolled at Historically Black Colleges, Tribal Colleges, and Hispanic-serving Institutions. City College is a designated Hispanic-serving Institution.

The CLS Program that she passed up includes intensive language instruction and structured cultural enrichment experiences designed to promote rapid language gains. CLS is part of a wider government initiative to expand the number of Americans studying and mastering foreign languages that are critical to national security and economic prosperity. It is a program of the State Department's Bureau of Educational and Cultural Affairs.

Coronado's two language honors add to her accolades at CCNY. She was awarded the Isaacs Scholarship in Language & Literature, and the Kaye Scholarship for the Humanities & Arts. She was part of the Moore Undergraduate Research Apprenticeship Program at UNC-Chapel Hill, and is a member of the Summer 2020 - Spring 2022 cohort of the CCNY Mellon Mays Undergraduate Fellowship Program.

A Black studies minor, Coronado's future plans include putting her language skills to use. Her goal is to pursue a PhD program where she can develop her research on the history of women of African descent in the early colonial Iberian Atlantic.

Alum Daxi Li '85 Facilitates Rock Orient Foundation Donation of 100K Masks



Steven C. Rockefeller, Jr.

The Rock Orient Foundation, led and chaired by Steven C. Rockefeller Jr., a fifth-generation member of the Rockefeller family, donated 100,000 masks to City College that will be used to support the CCNY community and neighborhood during the current COVID-19 pandemic.

CCNY alumnus Daxi Li '85, who got his PhD in physics, helped establish the charity organization and initiated the donation with Ngee-Pong Chang, professor of physics at CCNY. Li attended City College with a full scholarship under the CCNY-China Exchange Program, which began under former CCNY Provost Harry Lustig.

"I will never forget the help and the education I received from CCNY; I want to do my best to give my humble contribution to CCNY, especially during this difficult time of a pandemic," said Li.

The masks will be distributed throughout campuses across all five boroughs, according to a letter of acknowledgement by President Vince Boudreau and Dee Dee Mozeleski, executive director of The Foundation for City College.

"There is an old Chinese saying: a drop of water given in need shall be returned with a burst of spring," said Li, who actively promotes the Global Cultural Exchange Program and works with alumni from the China U.S. Entrance Application program, an initiative of Nobel Laureate T.D. Lee, the renowned Columbia University physicist.

The Rock Orient Foundation seeks to provide solutions to the challenges of world public health and education. They also support the involvement of public health, promotion of global education and culture communication, development of human society and enhancement of technological development. The foundation also donated masks to Harvard University, Yale University and Saint Joseph's University.

Mathieu Perez '20 Awarded Prestigious NIH Oxford-Cambridge Scholarship



Mathieu Perez '20, who earned numerous national honors for his outstanding scholarship and research during his time at CCNY, was awarded a National Institutes of Health (NIH) Oxford-Cambridge Scholarship.

As an MD-PhD candidate, Perez will conduct research in human disease through the lenses of biophysics and structural biology. His multi-institutional program offers him the opportunity of training with renowned researchers in these fields, which will allow him to innovate and expand medicine through basic science investigation.

The NIH Oxford-Cambridge program is an accelerated, individualized doctoral training program for outstanding science students committed to biomedical research careers. The highly competitive fellowship combines the Medical Scientist Training Program (MSTP), NIH training, and a PhD at Oxford or Cambridge University. For Perez, he will conduct research at Oxford and then attend the University of California, San Francisco.

The Ecuadorean immigrant is the first graduate of City College's accelerated MS program in biochemistry, which was founded in 2018. Perez was a stellar student, earning both BS and MS degrees in 2020. Some of his awards included:

- The American Chemical Society's Scholar honor
- Research honor awards from Harvard Medical School
- National Institutes of Health Fellowships
- The Barry Goldwater Scholarship, America's premier award for undergraduates majoring in math, science and engineering
- The Kaylie Prize from the Zahn Innovation Center

This past spring, Perez received the Jonas E. Salk Scholarship, awarded by CUNY to exceptional students who plan careers in medicine and the biological sciences. As a Salk Scholar, he receives a stipend of \$8,000 over four years to defray the tuition costs of his graduate studies or medical training.

Dee Dee Mozeleski is CASE Professional of the Year and a Crain's Notable



Dee Dee Mozeleski, vice president of the Office of Institutional Advancement and Communications, executive director of the Foundation for City College and senior advisor to the president, is a CASE District II Professional of the Year and a Crain's New York Business 2021 Notable in Nonprofits and Philanthropy.

The Professional of the Year award recognizes a District II institutional advancement professional who has demonstrated exceptional achievement in the development of an institutional advancement program or innovative execution of programs within an area of advancement; contributed to the profession through work with CASE; and volunteered in service to the community or charitable organizations.

The Crain's list of Notables in Nonprofits and Philanthropy is a celebration of 57 New York heroes who facilitated or led nonprofit work in the face of the pandemic. All of the honorees who made the list were chosen for their effort to help New Yorkers ride out the upheaval wrought by Covid-19.

"Dee Dee's outstanding talent, the thing that makes her so effective, is that she fully connects every aspect of her work to CCNY's great social and cultural mission," said CCNY President Vincent Boudreau. "When she's working with a donor, or a colleague, or a staff member, she helps them see the link between whatever they're doing and our founding mission: making the world more democratic and just. This is truly important work, work she undertakes with real joy, and I'm so pleased to see her efforts so deservedly recognized."

Mozeleski has spent almost thirty years working in service to public higher education institutions, cultural programs, international agencies and government organizations. At City College, she is a member of the college's senior leadership team, the president's cabinet and serves on a variety of special committees, including the Task Force for the Future of City College.

Her responsibilities include philanthropic management of the Foundation for City College, stewarding and expanding the College's public profile, workforce development activities, community engagement projects and management of campus emergency needs programs including Benny's Food Pantry—which was made available for all CUNY staff and students during the pandemic—the Urban Gardens at CCNY, and a portfolio of emergency support programs to expand opportunities for students.

She is credited with merging two formerly independent organizations, the 21st Century Foundation and the City College Fund, into one unified foundation, which helped enhance the public image of CCNY as an engine of upward financial and social mobility, and manages its \$290 million endowment.

She oversaw the fundraising campaign which launched the Colin Powell School for Civic and Global Leadership in 2013.

A graduate of San Diego State University, Mozeleski currently serves on the Board of Advisors of the Appalachian Mountain Club, and as an advisor to the Outdoors Initiative and Hockey Club. She served as a board member of Women in Development, NYC, and Seeds of Africa Foundation, where she worked to build a K-12 school in Adama, Ethiopia. One of her most proud accomplishments is having raised a City College graduate, class of 2016.

2021 CCNY Foundation Board Members

On December 3, 2019, The City College of New York and its Foundation Board Leadership announced the formation of The Foundation for City College, Inc. It is the culmination of a three-year process to consolidate the 21st Century Foundation and the City College Fund. The Foundation began operations with an endowment of more than \$290 million.

Martin Cohen '70, Board Chair

Edward Blank '57

Vivien R. Clark

John Dionisio '71

Leonard Kleinrock '57

Maureen Mitchell '73

Sy Sternberg '65

Michael Sutton

Lev Sviridov '05

Josh Weston '50

Peter Zahn

Vince Boudreau, CCNY President,
ex-officio

The new foundation's mission at the 175-year-old institution is to enhance access to educational and research excellence, particularly to students who might not otherwise attend a senior college due to the financial costs.

CCNY Administration Welcomes Barbara Evans to OIAC



Barbara Evans is the new associate executive director of the Office of Institutional Advancement and Communications (OIAC). As a member of the OIAC's senior management team, Evans plays a key role in the development and management of the College's fundraising strategy, which is vital to its long-term financial sustainability. Evans reports to Vice President for Institutional Advancement and Communications Dee Dee Mozeleski, who is also the executive director of The Foundation for City College Inc. Evans' responsibilities include alumni relations, annual giving, planned giving, corporate and foundation relations, major gifts and college-based development programs.

"I truly believe in the mission of City College, and this is a great opportunity to raise the funds necessary to support that mission," said Evans. "I am also inspired by the commitment and the enthusiasm of the College's leadership."

Evans is an innovative fundraiser with proven expertise and leadership in driving fundraising success. Most recently, as the Appalachian Mountain Club's development officer, she managed a qualified portfolio of supporters and prospects capable of making \$25,000+ gifts. One of her many achievements was to increase annual fund giving by double digits in three consecutive years. In addition to her proven ability to close four-, five-, six- and seven-figure gifts, Evans has served as an events and operations professional for many well-known philanthropic organizations. Evans holds a B.S. in Communication Sciences (cum laude) from the University of Connecticut at Storrs.

"Barbara brings with her the knowledge of what it means to steward an historic institution through times of great change and is deeply committed to ensuring that the mission of our college remains just as vital to the future of our nation as it was on the day of our founding," said Mozeleski.

Presidential STEM Mentoring Honor for Professor Emeritus Sheldon Weinbaum



Sheldon Weinbaum, Professor Emeritus at CCNY, is one of 12 recipients of the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring (PAESMEM) from the White House. The awards are America's highest honor for mentors who work with underrepresented groups to fully develop the nation's human resources in STEM.

"Sheldon Weinbaum represents the most outstanding mentors America has to offer and serves as both a model and an inspiration to students and those entering the professional workforce," said a statement from the PAESMEM Team.

Previously a CUNY Distinguished Professor of Mechanical and Biomedical Engineering at City College and the CUNY Graduate Center, Weinbaum is the only honoree from New York State.

Along with the award, mentors receive \$10,000 from the National Science Foundation, a certificate signed by President Donald Trump and a trip to Washington, D.C. to celebrate their accomplishments, participate in professional development opportunities and join a cadre of over 300 PAESMEM alumni.

Nominations and awards are facilitated by the White House Office of Science and Technology Policy (OSTP) and the National Science Foundation.



The City College
of New York

175
Years
of Upward Mobility