



Mitch Goldberg

PhD, Chair, CUNY CREST & R-SIRUS

Distinguished Lecturers



Jack Xiong

PhD, Instrument Calibration Expert (NASA-retired)



Steve Platnick

PhD, Visible/Near Infrared Imagery Expert -Clouds/Aerosols (NASA-retired)



Tony McNally

PhD, Head of Earth System Assimilation, ECMWF



Maria Tzortziou

PhD, Ocean Ecology & Biogeochemistry Expert, CCNY



Christian Kummerow

PhD, Microwave RS Expert, Colorado State University



Bojan Bojkov

PhD, Head of the EUMETSAT Remote Sensing & Product Division



Allen Huang

PhD, Infrared RS Expert, University of Wisconsin, Madison



Shobha Kondragunta

PhD, Air Quality Remote Sensing Expert, NOAA



Ken Holmlund

PhD, Earth Observing Systems Expert, Retired WMO Space Program Chief & EUMETSAT Chief Scientist



Kyle McDonald

PhD, Synthetic Aperture Radar (SAR) Expert, CCNY



Laura Alvarez

PhD, Expert in ML Models & Autonomous Systems Technology for Enhancing Computational Fluid Dynamic Models, UTEP



Alex Gilerson

PhD, Ocean Remote Sensing Expert, CCNY



Hernan Moreno

PhD, ML Expert in Hydrology and GeoAI, UTEP



Dan Lindsay

PhD, Expert in Imagery Nowcasting Applications, NOAA



UNU Hub
Remote-Sensing & Sustainable
Innovations for Resilient Urban
Systems (R-SIRUS)

About the Workshop

The United Nations University Hub R-SIRUS, Remote Sensing and Sustainable Innovations for Resilient Urban Systems, is pleased to announce the launch of its Professional Development Workshop in Digital Earth and Artificial Intelligence for Sustainability.

This unique workshop offers participants an opportunity to develop cutting-edge skills at the intersection of remote sensing, geospatial technologies, artificial intelligence, and sustainable development. It is designed for professionals, researchers, and policymakers looking to harness digital innovation for global sustainability challenges.

This five-day micro-credential workshop provides hands-on training in Earth remote sensing and artificial intelligence/machine learning (AI/ML) for forecasting and policy support. Participants will gain experience working with satellite data, applying machine learning techniques, and building reproducible workflows using Python and open science datasets. The program culminates in a capstone project designed to deliver real-world impact.

INTERESTED? SIGN UP



<https://unu-hub.ccny.cuny.edu/>



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Steinman Hall - 140th St. & Convent
Ave, New York, NY 100031, USA



United Nations University Hub R-SIRUS

Professional Development Workshop in Digital Earth and Artificial Intelligence for Sustainability

January 12-16, 2026

9:00 AM-5:00 PM EST
The City College of New York

Certificate awarded at completion



UNU
INWEH



The City College
of New York

Who Should Apply?

Professionals and advanced students from:

- Government agencies and NGOs
- Research institutions and universities
- International organizations
- Private sector engaged in environmental tech or AI

Learning Outcomes

- Learn core Earth Remote Sensing (RS) systems
- Apply AI/ML to forecasting & real-world decision support
- Gain familiarity with diverse Earth Observation (EO) datasets
- Panel forums for engaged discussions
- Networking with global experts

Workshop Structure



Lecture Format - Day 1-2

EO Systems, Remote Sensing Theory, Products/Applications:

- Temperature, Water Vapor, Clouds, Aerosols, Vegetation
- Ocean Color, Surface Temperatures, Snow/Ice, Ozone
- Precipitation, Flooding, Nowcasting Imagery, Wildfires
- Situational Awareness, Decision Support, Risk Analysis, Disaster Management



Hands On (AI/ML) - Day 3-5

AI/ML for Geoscience, Environmental Data Science, Forecasting

- Coding labs & Model validation + reproducibility best practices

Open Science Platforms

- Building shareable workflows & research with open datasets

Applications in disaster risk reduction

- Flooding and urban heat

Registration Fees

Early Access before Dec. 1, 2025	In-person \$400	Online \$250
General Access before Jan. 1, 2026	In-person \$500	Online \$350
Onsite Start Day	In-person \$600	Online \$400



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