



Graduate Research Assistantships in Environmental Science

Tzortziou Bio-Optics Lab
Center for Discovery and Innovation, New York City

Are you interested in participating in research that explores impacts of anthropogenic pressures, environmental hazards, and climate stressors on coupled natural-human systems? If so, please consider joining our group.

You can learn more about our research [here](#)

Please e-mail:

- (i) statement of interest,
- (ii) a curriculum vitae,
- (iii) unofficial transcript(s), and
- (iv) contact information of two references to Prof. Maria Tzortziou (mtzortziou@ccny.cuny.edu or mt3123@columbia.edu).

The start date is Fall 2023. Review of applications will begin immediately.

Fully funded graduate (PhD or MSc) research assistantships in Environmental Science are currently available with the Tzortziou Bio-Optics Laboratory at the Center for Discovery and Innovation, City College of New York, and Lamont Doherty Earth Observatory at Columbia University. The selected candidates will participate in interdisciplinary studies that integrate **field measurements, laboratory experiments, and satellite remote sensing observations** to assess impacts of anthropogenic pressures and environmental hazards on inland, coastal, and open ocean biogeochemical cycles, ecological processes, and ecosystem services across temporal and spatial scales. Specific environmental stressors addressed in ongoing projects in our Lab include urban development, human population shifts, atmospheric pollution, eutrophication, acidification, global warming, sea level rise, permafrost thawing, and changing hydrological regimes.

We are searching for highly motivated students with a BSc. or M.Sc. in Environmental Sciences, Oceanography, Physics, Chemistry, Biology or closely related discipline, ability to work well within a multidisciplinary and dynamic environment, strong analytical skills, strong research interest in aquatic biogeochemistry and optics, and good communication skills. Students will gain skills in field data collection methods, sample processing, laboratory experiments, programming, remote-sensing satellite algorithm development, and satellite data analysis. The exact scope of the MSc/PhD project will be defined in collaboration with each candidate.

Support will be provided for participation in international conferences and workshops, for communication of results, networking and interaction with the scientific community.