Nur Kader

Education

Harvard University Cambridge, MA A.B. Physics with Biophysics emphasis 09/2020–05/2024
Relevant Coursework: Introductory courses in Molecular and Cellular Biology, and Genetics; Physical Chemistry, Organic Chemistry, Introductory courses in Mechanics, Electricity, and Waves and Optics; Quantum Mechanics.
Extracurriculars: Co-editor for *The Wave*, Harvard's Asian American art and literature magazine; Co-founder for *The Lavender Room,* Harvard's People of Color Fashionmagazine;former organizer for Fossil Fuel Divest Harvard, former instructor for Food Lab for Kids.

North Carolina School of Science and Mathematics (NCSSM) Durham, NC 05/2020
Relevant Coursework: Molecular Genetics, Neuroscience, Computational Physics, AP Chemistry
Extracurriculars: Literature Editor for *Blue Mirror,* NCSSM's art and literature magazine; Physics Teaching Assistant. Presented research poster of a VPython model of the Apollo 11 mission at NCS-AAPT conference (11/2019) and at Board of Trustees meeting (12/2019)

Experience

Harvard Summer School Cambridge, MA 07/–08/2021
Physics Teaching Assistant

- Graded homework assignments for 30 students
- Taught section to 10 students weekly, prepared section materials and coordinated with course staff to continuously improve the teaching materials
- Assisted students during office hours with homework and conceptual questions

Vilgalys Mycology Lab Duke University, Durham, NC 06–07/2019
Research Intern

- Collected 100 root tips for each of 65 pine seedlings, counted mycorrhization rate of the roots. Extracted 135 DNA samples, one from root sample and one from soil for each of 65 pine seedling, to test remedial effects of symbiotic fungi treatment as a method of ecological restoration. ANOVA and Tukey tests to connect soil type, mycorrhization, and root weight.
- Presented research poster at NCSSM Summer Symposium (07/2019) and at Duke conference hosted by Dr. Rytas Vilgalys (08/2019)

The Junior Academy of the New York Academy of Science 08/2016-06/2019
Team Leader

- Worked with STEM students from around the world online to solve challenges in sustainability and public health; led brainstorming sessions and organized meetings.
- Challenge finalist for public health project designing nanotech path for Ebola symptom biomarkers

Skills

Laboratory: DNA isolation, PCR, gel electrophoresis, cell culture
Other: effective communicator, published author of best-seller poetry book *Chromatic.*