

Elida Kocharian
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Education

HARVARD UNIVERSITY

Cambridge, MA

Joint B.A. Degree in Earth & Planetary Sciences and Environmental Science & Engineering

May 2021

Secondary in Global Health & Health Policy

3.8 GPA

Relevant Coursework: Biogeochemistry; Environmental Toxicology; Atmospheric Chemistry; Global Health; Global Change Biology; Organic Chemistry; Biochemistry; Physics; Multivariable Calc; Linear Algebra

Experience

RESEARCH ASSISTANT, HARVARD EARTH & PLANETARY SCIENCES

Cambridge, MA

Pearson Laboratory for Molecular Biogeochemistry & Organic Geochemistry

Sept 2018-present

Developed procedure for studying nitrogen fixation in diatoms, cyanobacteria. Currently conducting thesis research on autocatalytic biochemical cycles in ancient archaeal metabolisms using chemical kinetic modeling.

RESEARCH ASSISTANT, HARVARD EARTH & PLANETARY SCIENCES

Cambridge, MA

McColl Group

Sept 2019-Feb 2020

Designed, built, tested a novel experimental apparatus to model global hydrological cycle & measure the impacts of microplastics on ocean evaporation. Managed \$5000 lab project budget.

HARVARD FOREST SUMMER 2019 REU IN ECOLOGY

Petersham, MA

Field Research Intern, Munger-Wofsy Eddy Flux Tower LTER

May-Aug 2019

Conducted field study w/ eddy flux data & dendrochronology to estimate terrestrial carbon sequestration & ecosystem productivity. Cored, cross-dated, processed 120+ tree cores for climatic & ecological analysis.

HARVARD POPS ORCHESTRA

Cambridge, MA

Co-President

Sept 2017-Dec 2019

Lead 50 student musicians in a full symphonic orchestra. Organize, write, perform as bassist in 3-4 original creative concerts/year. Arrange, conduct film scores; write grant apps, manage budget.

HASTY PUDDING THEATRICALS

Cambridge, MA

Accessibility & Philanthropy Chair

Jan 2017-present

Lead initiatives & programming in diversity, inclusion, belonging for student-run nonprofit theatrical company. Coordinate w/ Boston youth arts nonprofits to host fundraisers & volunteering, outreach events.

SPECIAL SPIRIT INC.

Los Angeles, CA

Volunteer & Summer Camp Counselor

Aug 2010-May 2019

Instruct disabled children from local community in equine therapy lessons. Manage barn chores, clean tack, care for horses. Lead horsemanship & team building activities for 20-30 kids in summer camp.

Skills & Interests

Programming Languages: Python, R, Matlab

Skills: Microbial culturing, PCR, spectrometry, dendrochronology, QGIS, PyMOL, toxicokinetic modeling

Languages: Armenian (fluent), French (fluent)

Interests: Environmental health; jazz, neo-soul, and funk music; hiking