

Kiefer Cure

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Objective: Position in neuroscience research and service using my knowledge of the brain and behavior, interpersonal skills, and research experience.

Education:

University of Maryland, College Park, MD
Bachelor of Science, Neuroscience
Bachelor of Arts, Theatre
Honors College, Integrated Life Sciences
Full Banneker Key Scholar

Expected Fall 2024

Lab Skills: PCR/DNA miniprep, In vitro RNA transcription/isolation, Protein production via E. Coli plasmid-insert/isolation, Gel electrophoresis (SDS-PAGE, urea-PAGE, agarose), Western blot, Spectrophotometry/spectrofluorometry assays, Wet-mount slide preparation, Bright field/fluorescence microscopy, Thin layer chromatography, IR spectroscopy.

Technical Skills: Google/Microsoft Suite, Python, ImageJ.

Research Experience:

Undergraduate Researcher

October 2022 - Current

Caras Lab, Department of Biology, University of Maryland College Park, College Park, MD

Intern

June 2018 - August 2018

Woodson Lab, Department of Biophysics, Johns Hopkins University, Baltimore, MD

- Performed independent studies of the self-cleavage properties of glmS ribozyme as assistant to a doctorate candidate
 - glmS variant amplification via PCR, in vitro transcription
 - Isolation via Urea-PAGE and EtOH precipitation
 - Characterization of self-cleavage activity via spectrofluorometry assays
- Presented research for a variety of audiences and environments, including:
 - Johns Hopkins 27th IBR Annual Retreat
 - BRBT Commencement 2018
 - Woodson Lab weekly lab meetings

Intern

June 2017 - August 2017

Biophysics Research for Baltimore Teens Program, Johns Hopkins University, Baltimore, MD

- Successfully completed lab techniques for biophysics research training course
- Produced, isolated, and characterized fluorescent protein mOrange (an mcherry derivative) as part of a student research team
 - Production via lac-operon plasmid-insert in e. coli
 - Characterization of beta-barrel structure via circular dichrom
 - Characterization of fluorophore activity via spectrofluorometry
- Effectively collaborated with a small group (two other students on the mOrange team), a large group (other groups characterizing other derivatives), and supervisors.
- Selected to be placed as an intern in a working Department of Biophysics lab based on outstanding conduct