

# Robert Cullen

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## EDUCATION

### University of Rhode Island, Kingstown, RI

Currently studying for M.S. in Nutrition and Food Science est. 2024

B.S. in Cellular and Molecular Biology, Biochemistry Track 3.48 GPA 2022

#### Relevant Courses Completed:

- Biochemistry
- Anatomy and Physiology w/ Lab
- Calculus
- Statistics
- Immunology and Serology
- Cell Biology
- Microbiology w/ Lab
- Organic Chemistry II w/ I Lab
- Biotechnology Manufacturing w/ Lab
- Physics II w/ Lab

## LAB & RESEARCH SKILLS

<ul style="list-style-type: none"><li>• Cell culturing</li><li>• Serial dilution</li><li>• Aseptic techniques</li><li>• Gel electrophoresis</li><li>• SDS-PAGE</li><li>• Hemocytometry</li><li>• Distillation</li><li>• NMR, Mass Spec, IR Spec</li><li>• Use of Applikon bioreactors (500mL)</li><li>• Batch and Continuous Culture Systems</li><li>• Making bacteria seeds</li><li>• Data analysis</li><li>• Cell Transfection</li></ul>	<ul style="list-style-type: none"><li>• Spectrophotometry</li><li>• Titration</li><li>• DNA and RNA Extraction</li><li>• Centrifugation</li><li>• Micro/macro pipetting</li><li>• Bioreactors</li><li>• Recrystallization</li><li>• Chromatography</li><li>• Use of well plates</li><li>• Making media and solutions (M9, LB)</li><li>• Use of autoclaves</li><li>• Microwave digestion</li><li>• High Content Screening Microscopy</li></ul>
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## EXPERIENCE

### Lab Assistant

September 2019 - May 2022

University of Rhode Island Environmental Engineering Laboratory - under Dr. Vinka Craver

- Study the effects of nanoparticles (GrO, MoS<sub>2</sub>, MoSe<sub>2</sub>) on the growth of bacteria (*E. coli*, *P. aeruginosa*). September 2019 - March 2020
- Research the deposition patterns of microplastics in marine life tissues (*Crassostrea virginica*). January 2021 - May 2021

University of Rhode Island Ryan Institute Neuroscience Laboratory - under Dr. Claudia Fallini

- Monitor the effects of neurodegenerative diseases on the nuclear membrane structure, its transport capabilities, and its interaction with the cytoskeleton. June 2021 - May 2022

## SKILLS AND INTERESTS

- Interests in nutrition and economics (On track to graduate with 9 credits in each focus).
- Proficiency with Microsoft Office, Google Drive, and Adobe applications.
- Personal interests include cooking, agriculture, guitar, and photography.

## REFERENCES

Dr. Vinka Craver - URI - [craver@uri.edu](mailto:craver@uri.edu)

Dr. Claudia Fallini - URI - [cfallini@uri.edu](mailto:cfallini@uri.edu)

Dr. Marie Mortreux - URI - [marie.mortreux@uri.edu](mailto:marie.mortreux@uri.edu)