

Mariam A. Topchyan

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EDUCATION

2019 - 2023
Virginia Commonwealth University (VCU)

B.S. in Biology
Minor in Computer Science

Cumulative GPA: 3.93/4.0
Dean's List (all semesters)

COMPUTER SKILLS

Languages:

- Java, Python, HTML

IDEs:

- IntelliJ IDEA, Spyder

Data analysis tools:

- Logger Pro, Fathom,
NCBI BLAST
- Microsoft Office Suite

LABORATORY SKILLS

- PCR
- Mammalian cell culture
- Gel electrophoresis
- ELISA
- Nucleotide BLAST
- DNA barcoding

LANGUAGES: English, Russian, Eastern Armenian

RESEARCH EXPERIENCE

Virginia Department of Wildlife Resources (2018-19)

Student Volunteer — Charlottesville, VA

- Participated in team research studying population of the critically endangered James River spiny mussel.
- Tagged, photographed, and tracked spiny mussels, and collected population data on local macroinvertebrates.
- Monitored local stream health through water and chemical tests.
- Organized and conducted statistical analysis of data on hundreds of mussels via Fathom and Excel.

WORK & VOLUNTEER EXPERIENCE

UVA Endocrinology & Metabolism Department (2019)

Intern — Charlottesville, VA

- Shadowed Dr. Margaret Crook at a private endocrinology clinic.
- Worked with patients during appointments.
- Managed paperwork and organized insulin pump data.

Top Tooth Pediatric + Teen Dentistry (2019)

Intern — Charlottesville, VA

- Shadowed pediatric dentists and dental hygienists.
- Worked with patients during appointments, assisted with dental extraction procedures.
- Electronically documented dental examinations.
- Thoroughly sterilized all dental tools between each appointment.

Camp Holiday Trails (2019)

Volunteer — Charlottesville, VA

- Worked in a team of volunteers for a nonprofit summer camp for children and teens with various medical needs.
- Guided campers carefully with horseback riding.
- Handled, groomed, and fed the camp's horses daily.