

CANON ZEIDAN

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EDUCATION

University of Pittsburgh, Pittsburgh, PA

August 2024 - Present

Doctor of Philosophy in Physics

Subfield: Biophysics

Virginia Polytechnic Institute and State University, Blacksburg, VA

August 2020 - May 2024

Bachelor of Science in Physics | Bachelor of Science in Mathematics

Overall GPA: 3.74 | In-Major GPA: 3.81

RESEARCH EXPERIENCE

The Mugler Group, University of Pittsburgh

August 2024 – Present

Research assistant

Pittsburgh, PA

- Primarily work on consumer-resource and predator-prey models with a focus on multi-scale cellular biodiversity and coexistence.
- Developed a number of stochastic modeling software for application within the group

The Täuber Group, Virginia Tech

August 2022 – May 2024

Research assistant

Blacksburg, VA

- Presented research at 2023 APS March Meeting with abstract N55.00008
- Involved in an Eco-evolutionary joint theory/experiment collaboration between Virginia Tech, University of Leeds, and Imperial College London.
- Produced, analyzed, and presented models and data produced for a number of agent-based biological simulations.

PRESENTATIONS

APS March Meeting

March 2024

Inducing coexistence in vulnerable three-species ecosystems with cyclic competition

Minneapolis, MI

- Authors: Canon B. Zeidan, Uwe Täuber
- Award No. NSF DMS-2128587 | Abstract No. N55.00008

PROFESSIONAL EXPERIENCE

Student Success Center, Virginia Tech

August 2022 – August 2023

Tutor

Blacksburg, VA

- Completed Multiple CRLA-certified training.
- Hosted 30 group and individual tutoring sessions in upper-level math and physics courses.
- The general $\frac{4.95}{5}$ rating was received by the participants with $\frac{5}{5}$ being perfect.

Intermediate Electricity and Magnetism, Classical Mechanics, and Quantum Mechanics 1 & 2

August 2022 –

May 2024

Learning Assistant

Blacksburg, VA

- Held weekly office hours and review session while also being present in class to help and engage in lecture.

Mannakee Group*Project leader*

May 2019 – August 2019

Washington, DC

- Obtained government security clearance.
- Led and managed a group of 3 interns on web design and infrastructure projects.
- Helped on and attended multiple trips to Department of Defense sites to deploy infrastructure.

LEADERSHIP EXPERIENCE

Virginia Tech Physics Department*Mentor*

August 2022 – Present

Blacksburg, VA

- Regularly met with 2 freshmen assigned by the department to help provide support from both an academic and emotional role.
- Regularly informally and formally tutor these freshmen in their introductory classes.

Virginia Tech SPS Chapter*Vice President*

August 2023 – May 2024

Blacksburg, VA

- Took a primary role in funding and organizing SPS Zone 4 Meeting 2024
- Organized and facilitated a number of events, talks, and poster sessions
- Helped facilitate communications within the organization, alongside mentoring a number of first-year math and physics majors

Peers Helping Peers Program*Mentor*

August 2018 – August 2020

Mechanicsville, VA

- Acted as a mentor, regularly meeting and supporting struggling youths, with a specific focus on trans and minority teens.

AWARDS

Fellowships

University of Pittsburgh Arts and Science Fellowship

Scholarships

Webster and Sara Schoene Richardson Memorial Scholarship

Awards

Dean's List August 2020 - 2024

MembershipsMember of $\Sigma\Pi\Sigma$ **TECHNICAL STRENGTHS**

Computer Languages

C++, Java, Python, C, HTML, JS

Libraries

CUDA, PyTorch, TensorFlow

Tools

Git, Vim, Emacs