

EDUCATION	PH.D., PHYSICS <i>University of Wisconsin – Madison</i> <ul style="list-style-type: none"> ○ Prospective admission to candidacy: Fall 2019 	AUG. 2017 – PRESENT <i>Madison, WI</i>
	B.S. PHYSICS, B.S. MATHEMATICS <i>University of Rochester</i> <ul style="list-style-type: none"> ○ Graduated <i>Cum Laude</i>: Physics GPA 3.96/4.00; Mathematics GPA 3.95/4.00; Cumulative GPA 3.82/4.00 ○ Recipient of Dean’s Scholarship; Recipient of Research and Innovation Grant; Dean’s List seven of eight semesters ○ Completed three-course clusters in both Economics and Ancient Greek ○ Notable coursework: <ul style="list-style-type: none"> – Mathematics independent study: <i>Representation Theory: Classification of Semi-simple Lie Algebras and Construction of \mathfrak{g}_2</i> – Physics graduate courses: Gravitation (PHY 413); Quantum Mechanics I (PHY 407); Quantum Mechanics II (PHY 408) 	AUG. 2013 – MAY 2017 <i>Rochester, NY</i>
RESEARCH EXPERIENCE	RESEARCH ASSISTANT <i>Department of Physics & Astronomy</i> <ul style="list-style-type: none"> ○ Worked with Dr. Tamar Friedmann to investigate supersymmetric SO(10) grand unified theories that arise from M-theory. ○ Used topological and geometric properties of the compactification space to extract properties of the lower-dimensional particle spectrum. ○ Worked with particles and their representations to derive renormalization group equations for several breaking schemes. ○ Analyzed energy scales and considered the phenomenological implications of the breaking schemes. 	JUNE 2016 – MAY 2017 <i>Rochester, NY</i>
	GRADUATE TEACHING ASSISTANT <i>Department of Physics</i> <ul style="list-style-type: none"> ○ Energy (PHY 115) – Spring ‘18 ○ General Physics (PHY 104) – Fall ‘17 	AUG. 2017 – PRESENT <i>Madison, WI</i>
TEACHING EXPERIENCE	STUDY GROUP LEADER <i>Center for Excellence in Teaching & Learning</i> <ul style="list-style-type: none"> ○ Lead weekly sessions with a small group of introductory physics students. ○ Helped students with study strategies and reinforced critical-thinking skills. ○ Facilitated group discussion and group problem solving. 	SEPT. 2016 – MAY 2017 <i>Rochester, NY</i>
	TEACHING INTERN <i>Department of Physics & Astronomy</i> <ul style="list-style-type: none"> ○ Electricity & Magnetism I (P217) – Fall ‘16 ○ Honors Modern Physics (PHY 143) – Spring ‘15, Spring ‘16 and Spring ‘17 ○ Honors Mechanics (PHY 141) – Fall ‘15 ○ General Physics I (PHY 113) – Fall ‘14 	SEPT. 2014 – MAY 2017 <i>Rochester, NY</i>
	VOLUNTEER TUTOR <i>Society of Physics Students</i>	JAN. 2014 – MAY 2017 <i>Rochester, NY</i>
	PEER ADVISER <i>College Center for Advising Services</i>	JAN. 2016 – MAY 2017 <i>Rochester, NY</i>

- As liaison to Department of Physics & Astronomy, served as a resource for students for all things academic.
- Met with students to discuss course planning, research opportunities and other college opportunities.
- Underwent training through College Center for Advising Services to better advise students for their undergraduate careers, gaining knowledge of many university services.

DATABASE DEVELOPER

JUNE 2015 – AUG. 2015

Department of Physics & Astronomy

Rochester, NY

- Built department database for undergraduate records using FileMaker Pro.
- Learned about database design and writing scripts through the FileMaker Pro software.
- Gained knowledge of HTML and JavaScript while creating a user-friendly interface.

**AWARDS AND
HONORS**

UNDERGRADUATE TEACHING AWARD

MAY 21, 2017

Presented by the Department of Physics & Astronomy, University of Rochester

**TECHNICAL
SKILLS**

- *Working Knowledge:* LaTeX, Mathematica, CalcHEP, Java, FileMaker Pro
- *Basic Knowledge:* Python, HTML, JavaScript