




Ethan Knox

 Location


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A strong mathematics background lending to an innate understanding of the laws of physics. Particularly interested in scientific computing / computational physics, as it not only greatly elucidates the underlying physical phenomena, but is frequently at the intersection of theory, experiment, and industry. I look forward to assisting my future team solve problems and complete professional goals while honing my skills as a scientist.

Education

Purdue University	West Lafayette, IN
<i>Bachelor of Science in Mathematics, Minor in Psychology</i> GPA: 3.5	June 2017 - May 2021
<i>Bachelor of Science in Physics, Minor in Astronomy</i> GPA: 3.5	June 2017 - May 2021
Southport High School	Indianapolis, IN
<i>Diploma</i> GPA: 3.4	August 2013 - May 2017

Skills

- **Mathematics** (Calculus, Differential Equations, Linear Algebra)
 - **Python** (Numpy, Scipy, Sympy, Pandas, Matplotlib)
 - **Data Analysis** (Image Post-Processing and Higher-Level Analysis)
- **Physics** (Mechanics/Dynamics, Astrophysics/Cosmology)
 - **C/C++** (Boost, XTensor Libraries)
 - **Teamwork** (Eagle Scout, Scholastic/Extracurricular Sports)

Experience

University of Illinois Urbana-Champaign	Champaign, IL
<i>Student</i>	August 2022 - May 2023
<ul style="list-style-type: none">• Began Master of Science in Mathematics program to survey further topics in math.• Changed direction to hopefully find a place in industry via internship etc.	
The Tap	West Lafayette, IN
<i>Bar-Back</i>	October 2021 - June 2022
<ul style="list-style-type: none">• Assisting and training underneath the bartenders; helping behind the bar.• Knowledge-bank and creative resource for whisk(e)y and cocktails.	
Purdue University	West Lafayette, IN
<i>Research Assistant</i>	August - December 2020
<ul style="list-style-type: none">• Collaborated with the Iyer-Biswas lab to discover principles governing stochastic single-cell behavior.• Analyzed and processed individual frames of cell growth using custom Python scripts.• Summarized progress and clarified treatment of special cases in weekly all-staff meetings.• Published research can be found at: https://iyerbiswas.com/research/	
Gander Mountain	Greenwood, IN
<i>Sales Associate</i>	July 2016 - January 2017
<ul style="list-style-type: none">• Advised customers in the camping and firearms department using prior scouting experience.• Organized and stratified product from new shipments to keep the store running smoothly.	

Awards & Scholarships

The Tap	West Lafayette, IN
<i>"Above and Beyond" Award</i>	December 2022
Purdue University	West Lafayette, IN
<i>Dean's List</i>	Fall '17, Spring '20
<i>Semester Honors</i>	Fall '17, Fall '18 - Spring '20
<i>Provost Summer Scholarship</i>	Summer 2017, Summer 2018
<i>Frank O'Bannon Honors & Accelerated Scholarships</i>	
<i>David R. Lebeson Memorial Scholarship</i>	
<i>T. G. Alford Scholarship</i>	
Southport High School	Indianapolis, IN
<i>Science Department "Student of the Month"</i>	November 2016
Boy Scouts of America Troop 92	Indianapolis, IN
<i>"Scout of the Year"</i>	September 2016
<i>Eagle Scout</i>	August 2016

Extracurricular

Brazilian Jiu-Jitsu	Varying Gyms
<i>Practitioner</i>	August 2018 - Present
<ul style="list-style-type: none">• A means of personal maintenance both mental and physical.• Although usually thought of as an individual sport, there are countless opportunities to mentor and teach others during practice.	
Boy Scouts of America Troop 92	Indianapolis, IN
<i>Assistant Scoutmaster</i>	August 2016 - June 2017
<ul style="list-style-type: none">• Guided and mentored younger scouts in their positions and progression through the troop.• Acted as liaison between the scouts and scoutmasters to plan trips and other activities.• Managed rank advancements, supplies, and maintenance of equipment to support troop operations.	
<i>Senior Patrol Leader</i>	August 2014 - August 2016
<ul style="list-style-type: none">• Coordinated meetings, outings, and events with individual patrol leaders for the entire troop.• Communicated responsibilities and duties to other troop members and assisted them in their tasks.	