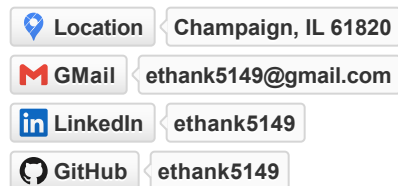


Ethan Knox



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

Sales Associate

July 2016 - January 2017

- 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

"Above and Beyond" Award

December 2022

Purdue University

West Lafayette, IN

Dean's List

Fall '17, Spring '20

Semester Honors

Fall '17, Fall '18 - Spring '20

Provost Summer Scholarship

Summer 2017, Summer 2018

Frank O'Bannon Honors & Accelerated Scholarships

David R. Lebeson Memorial Scholarship

T. G. Alford Scholarship

Southport High School

Indianapolis, IN

Science Department "Student of the Month"

November 2016

Boy Scouts of America | Troop 92

Indianapolis, IN

"Scout of the Year"

September 2016

Eagle Scout

August 2016

Extracurricular

Brazilian Jiu-Jitsu

Varying Gyms

Practitioner

August 2018 - Present

- 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

Assistant Scoutmaster

August 2016 - June 2017

- 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.

Senior Patrol Leader

August 2014 - August 2016

- 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.
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