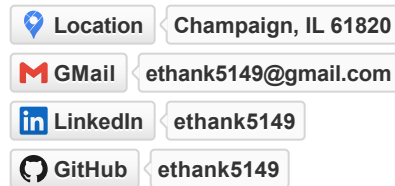


Ethan Knox



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

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

- 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

Whisk(e)y Sommelier	Hobbyist, Freelance
<i>Amateur (Level 0)</i>	Summer 2022 - Present
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. 	
