




# Ethan Knox

 Location


Champaign, IL 61820

 Email

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 LinkedIn

ethank5149

 GitHub

ethank5149

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

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

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