

Colton Barger
cbarger233@gmail.com
cbarger.com

EDUCATION M.A. Applied Mathematics, (2021)

Bowling Green State University

B.S. Physics, Minor in Mathematics (2019)

Pennsylvania State University

SKILLS	Programming	Python Data Analysis	MS Office Suite	Math Typesetting
	<ul style="list-style-type: none">• Python• SQL• C++	<ul style="list-style-type: none">• Pandas• Matplotlib• Seaborn	<ul style="list-style-type: none">• Excel• Word• PowerPoint	<ul style="list-style-type: none">• LaTeX

IP Services, Inc.

Monitoring & Enforcement Specialist (August 2021 - Present)

- Compile detailed stats reports using SQL
- Accurately update internal and client databases with collected data and actions
- Frequently update client dashboards with relevant information
- Research databases and websites for information in support of established cases

Fraud Specialist (June 2021 – August 2021)

- Evaluate data associated with e-commerce activity to distinguish fraudulent transactions from legitimate purchases

Bowling Green State University

Graduate Student Instructor (July 2019 – May 2021)

- Instructor of record for first-semester calculus courses
- Design own lesson plans and worksheets
- Experience teaching virtually through Zoom

Vanderbilt University

Summer Research Intern, Physics (Summer 2018)

- Applied statistical methods to predict properties of real materials from theoretical calculations
- Laid groundwork for a viable model to predict band gaps of silicon carbide materials using elemental composition

Pennsylvania State University

Student Research Assistant, Physics (2017-2019)

- Developed software to automate data collection and analysis
- Developed software to analyze data and predict real-world properties of silicon carbide
- Resulted in publication in Journal of Applied Physics:
<https://aip.scitation.org/doi/abs/10.1063/1.5094440>

Undergraduate Teaching Assistant

- Assist professors in grading and teaching undergraduate introductory physics courses

Larson Texts

Calculus Tutor (August 2017 – May 2018)

- Assist students taking calculus in online homework problems through a web-based chat