

# Aurora Caton

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## Education

**Lehigh University College of Business**, Bethlehem, PA Expected 5/2026

- B.S., Major: Business Analytics. Minor: Population Health (Data Science Focus). Major GPA: 3.56
- Relevant Coursework: Predictive Data Analytics, Business Analytics Modeling, Managing Information Systems Analysis and Design, Enterprise Security and Risk Management, Bio-applied Statistics, Data Science Algorithms Lab, Statistical Methods, Database Management, Advanced Topics in Business Analytics

## Work Experience

**Lehigh College of Health**, Bethlehem, PA, *Research Associate* 05/2025 - present

- Selected to perform research in the Department of Biostatistics and Health Data Science.
- Developing ensemble machine learning methods for the Interpretable Machine Learning Public Health Project.
- Developing and training Neural Networks using Python to enhance the efficiency and accuracy of Drug Induced Autoimmunity prediction.
- Will be presenting research findings in the College of Health Experiential Learning and Research Symposium.

**Prime Steakhouse**, Bethlehem, PA, *Server* 09/2020 - present

- Provide high quality service in a fast paced upscale dining environment.
- Assess and address customer needs, effectively prioritizing tasks and ensuring a seamless dining experience.
- Check with customers to determine satisfaction, promptly taking action to correct any problems.

## Campus and Community Involvement

**Lehigh Silicon Valley Baker Institute**, Bethlehem PA, *Participant* 11/2024 - 1/2025

- Completed a highly selective program immersing students in Silicon Valley's entrepreneurial landscape.
- Directly engaged with multiple technology industry leaders to learn various skills.
- Participated in multiple group case studies and pitched solutions to different technology startups.

**Institute for Healthcare Improvement Club**, Bethlehem, PA, *President* 11/2023 - present

- Oversee and manage all club activities, ensuring alignment with mission to improve healthcare systems.
- Collaborate with the Allentown Health Bureau to oversee projects addressing local opioid use issues.
- Earned patient safety certification by completing 17.75 hours of coursework in areas such as Improvement Capability, Patient Safety, Leadership, and Family-and-Patient Centered Care.
- Assisted club members with earning certifications and completing projects for the Health Bureau.

**Business Analytics Club**, Bethlehem, PA, *Member* 06/2023 - present

- Presented a project that analyzed key demographic behavioral and physiological factors significantly associated with increased risk of developing diabetes, using different regression and predictive modeling.
- Analyzed and manipulated different wine properties to test the passing of a statistical threshold.
- Built process diagrams to propose new designs to the Lehigh Advising end to end process.

**Victory House Homeless Shelter**, Bethlehem, PA, *Volunteer Coordinator* 08/2021 - 8/2023

- Coordinator of volunteer efforts for a homeless shelter serving male veterans.
- Developed and managed monthly schedules for members and oversaw various team assignments.
- Contributed by cooking and serving meals during scheduled months.

## Skills & Certifications

### Technical Skills

- Programming Languages: Python, R, SQL, Java, JavaScript, MATLAB
- Analysis/Improvement skills: Regression Analysis, Hypothesis Testing, Logistic Regression, Decision Trees, Random Forest, Time Series Analysis, TensorFlow, Kaizen, Lean Six Sigma
- Tools/Frameworks: Jira, Miro, VSCode, MS Office, Oracle, Excel, JupyterLab, Rstudio, Slack, Scrum, Kanban

### Certifications

- Introduction to Python Certification, Intermediate Python Certification, GitHub Certification, LinkedIn Learning, Git from Scratch Course Certification, Institute For Healthcare Improvement Patient Safety Certification