

Cassie Micucci

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PROFESSIONAL SUMMARY

Data scientist with 4+ years of industry experience leveraging mathematical and statistical expertise to solve complex problems across scientific, business, and logistical domains. Proven ability to reduce costs and improve efficiency through machine learning, optimization, and advanced analytics. Experienced in remote collaboration, mentoring, and presenting data-driven insights to diverse audiences. Skilled in Python, R, SQL, Azure, and Agile methodologies.

KEY COMPETENCIES

Programming & Tools: python (pandas, scipy, sklearn, streamlit), R (shiny, xgboost), SQL, Azure, JMP
Methods: machine learning, time series forecasting, optimization, experimental design
Collaboration Tools: Microsoft Teams, Trello, Zoom
Remote Work Experience: remote code reviews, virtual mentoring, remote presentations

PROFESSIONAL EXPERIENCE

Eastman Chemical Company **Jun 2020 - Present**
Data Scientist

Trained and deployed machine learning models to simulate chemical experiments, reducing lab work by 20%. Collaborated with team to develop customer segmentation and pricing optimization models that captured millions in revenue. Led a time series forecasting book study, creating interactive learning activities and managing a collaborative Git repository to ensure code accessibility and accuracy. Conducted a study on anomaly detection algorithms, presenting findings to data teams of hundreds of professionals. Represented the AI/ML team at IT panel discussions attended by hundreds.

University of Tennessee, Knoxville **Aug 2017 - May 2020**
Graduate Research Assistant, Graduate Teaching Associate

Conducted interdisciplinary research in topological data science, resulting in publications in peer-reviewed journals. Collaborated with diverse teams to apply mathematical modeling to real-world problems. Taught undergraduate mathematics courses as instructor of record for classes of 25–30 students.

U.S. Army Research Laboratory **May 2018 - Aug 2018**
Graduate Research Assistant

Conducted statistical data mining and analysis on EEG data from athletes, collaborating with a multidisciplinary team of scientists to uncover insights into cognitive performance. Recognized as finalist in the 2018 ARL Summer Student Symposium.

EDUCATION

University of Tennessee, Knoxville (2020)
Ph.D. in Mathematics
M.S. in Statistics
Dissertation: Persistence Diagram Cardinality and its Applications

Tennessee Technological University (2012)
B.S. in Mathematics
Minor in Music

ACCOMPLISHMENTS

Peer-Reviewed Publications
Co-author of multiple papers

Toastmasters International
Motivational Strategies Pathway - Level 3 of 5

Chapter President
American Statistical Association, UTK Chapter

Jimmy and Ileen Cheek Graduate Medal Nominee
Recognizing academic and leadership excellence