

BEN SALISBURY DATA SCIENTIST / MATHEMATICIAN

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SUMMARY

Experienced mathematician with strong leadership and communication skills seeking transition from academia to a Data Science role.

TRANSFERABLE SKILLS

- Led a department of 30+ faculty, staff and graduate assistants, overseeing budgets and making innovative strategic decisions.
- Excellent written and verbal communication skills, providing complete, honest, and transparent reports and updates to faculty, staff, students, and administrators.
- Strong project management skills, overseeing the planning, implementation, and evaluation of academic programs and projects.
- Expertise in solving complex problems related to curriculum development, budgeting, and faculty management.
- Effective collaborator, skilled in building relationships with a wide range of stakeholders.
- Analyzed data and made informed decisions based on that data to ensure the success of department programs.

EMPLOYMENT

The Hartford Insurance Group, Inc., Hartford, CT 06/2025–present
Data Scientist

- Member of the Actuarial Strategic Modeling team.

Central Michigan University, Mount Pleasant, MI 07/2013–05/2025
Department Chair in Mathematics, 2019–2025

- Collaborated with the department and upper administration to implement a campus-wide third-party Mathematics Placement Exam and mathematical support library for all enrolled students.
- Established a Mathematics Research Lab which increased joint research and social gatherings within the department.
- Mediated numerous issues between students, faculty, staff, and administration, with many instances taking place between parties in different groups.
- Active in DEI initiatives, including redefining the process for promotion within the department, decreasing bias in the process and making it more equitable.
- Eliminated an inherited 15% budget deficit in first year in this position by modernizing course offerings and more strategically staffing courses.

Professor of Mathematics, 2020–2025; Associate Professor, 2017–2020; Assistant Professor, 2013–2017

- Taught undergraduate- and graduate-level courses in mathematics.
- Advised and mentored students, including undergraduate students planning to pursue graduate degrees and graduate students working on their own research and publishing.
- Presented results of my mathematical research at local, regional, and international venues to audiences from the undergraduate level to the Ph.D. level.
- Secured \$35,000 in external funding for research and collaboration.
- Co-organized numerous seminars and conferences, including two international conferences.

The Travelers Indemnity Company, Hartford, CT 06/2024–08/2024
Intern, Data Science Leadership Development Program, Bond & Specialty Insurance R&D

- Utilized libraries such as pandas, NumPy, scikit-learn, NLTK, and gensim to perform exploratory data analysis on unstructured text.
- Enhanced an existing XGBoost model by integrating new data and improved model performance by over 25%.
- Gained a foundational understanding of actuarial concepts and insurance products pertinent to the business unit.
- Engaged in networking with employees across the enterprise to gain broad knowledge of the company's operations and business strategies.
- Served on the Intern Newsletter Committee.

ICERM, Brown University, Providence, RI

Postdoctoral Fellow

01/2013–05/2013

The City College of New York, CUNY, New York, NY

Postdoctoral Fellow

09/2012–01/2013

University of Connecticut, Storrs, CT

Graduate Teaching Assistant

08/2007–05/2012

EDUCATION

Ph.D. in Mathematics, University of Connecticut, Storrs, CT

2012

M.S. in Mathematics, University of Connecticut, Storrs, CT

2009

B.S. in Mathematics, University of Rhode Island, Kingston, RI

2007

COMPUTER SKILLS

- Python, SageMath, Git, SQL, HTML, CSS, \LaTeX

CERTIFICATES AND COURSES

- Introduction to Statistical Learning, www.statlearning.com, August 2023.
- Applied Data Science in Python Specialization (5 courses), University of Michigan, Coursera, August 2023.
- Deep Learning Prerequisites: The Numpy Stack in Python (V2+), Udemy, April 2023.
- Machine Learning Specialization (three courses), DeepLearning.AI, Coursera, March 2023.
- Python Essentials Training, LinkedIn Learning, March 2023.

OTHER EXPERIENCE

- Published 17 original research manuscripts in the areas of algebraic combinatorics and representation theory, with 95 citations according to [MathSciNet](#) and 135 citations according to [Google Scholar](#).
- Contributed to the free open-source mathematics software system [SageMath](#), which is a Python-based language building on NumPy, SciPy, matplotlib, and more. My contributions are listed on [GitHub](#).