

Contact

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Skills

Languages

- Python
- C++

Database/Analysis

- SQL
- Pandas
- NumPy

Development

- HTML5
- CSS3

Software

- Excel
- LaTeX
- Mathematica

Mary Clair Thompson, Ph.D.

Mathematician and Programmer

About me I'm a mathematician with a love for creative problem solving. I'm also a self-taught programmer with an ability to learn quickly and independently. My technical interests include data analysis, software development, and graphics creation and manipulation.

Experience

2013 - present, Lafayette College

Visiting Assistant Professor of Mathematics. Taught and administered three courses per semester, including Calculus I-III and Linear Algebra; led and participated in multiple research projects in algebra and data analysis; used Python to generate and analyze large quantities of data.

2007 - 2013, Auburn University

Graduate Teaching Assistant. Taught and administered two courses per semester; conducted independent mathematics research culminating in dissertation "Asymptotic Results in Noncompact Semisimple Lie Groups."

2007, NVision Solutions

Summer Intern. Developed GIS software solutions, including interactive maps for inland ports.

Education

2010 - 2013, Auburn University

Ph.D. in Mathematics

2007 - 2010, Auburn University

M.S. in Mathematics

2004 - 2007, Delta State University

B.S. in Mathematics, minor in Computer Information Systems

Projects

Determinant Analysis

Used Python to generate a large quantity of random matrices and calculate determinants. Performed analysis on the data using Pandas and NumPy to find standard statistical information such as means, moments, and quartiles.

Awards

Association for Women in Mathematics Travel Grant for Women Researchers

Funded travel to Shanghai, China for research and presentation.

Haynesworth Fellowship, Auburn University

Presented to outstanding graduate student in mathematics.

COSAM Dean's Research Award, Auburn University

Presented to the top Master's Theses in the College of Science and Mathematics.

First Diploma, Delta State University

Awarded to the graduating senior with the highest GPA.

References

References upon request.