

Summary

Current postdoctoral fellow in mathematics at The Ohio State University. 10 years experience in pure mathematics research, 3 years experience as mathematics professor. Sociable math geek with an inquisitive mind who enjoys abstract thinking and working on hard problems. Looking to pivot my trajectory to a rewarding career in data science. Enthusiastic to leverage machine learning to amplify my positive contributions to the world.

Skills

Programming

PYTHON

2020

- Python: 500 lines, 1 month experience
- Implemented solutions to machine learning exercises using numpy, scipy, and pandas

JAVA

2005 – 2006

- 5000+ lines code
- Coursework (data structures, algorithms, basic programming) and internship at software security company

Mathematics

RESEARCH

2006 – present

- 10 years professional experience in higher mathematics
- Expert on multivariable calculus, linear algebra, and most higher pure mathematics
- Submitted two original research papers in algebraic topology, homotopy theory, and category theory

TEACHING

2017 – present

- Develop course objectives and learning metrics; write exams
- Communicate complicated mathematical concepts to nonexperts

Work Experience

The Ohio State University

Columbus, OH

POSTDOCTORAL FELLOW

Aug 2017 – present

- Conduct research in homotopy theory and category theory; submitted two papers; delivered many invited talks at conferences and seminars
- Lecture undergraduate and graduate mathematics classes; taught 600+ students cumulatively
- Organize weekly seminar on research to mentor graduate students; planned two successful large conferences

The University of Texas at Austin

Austin, TX

GRADUATE STUDENT RESEARCHER AND TEACHING ASSISTANT

Sep 2010 – May 2017

- Conducted research in homotopy theory, delivered many invited talks at conferences and seminars
- Served as a calculus teaching assistant, received department teaching award, advanced to role managing all undergraduate course assistants
- Organized many seminars for graduate students

Education

The University of Texas at Austin

Austin, TX

PHD IN MATHEMATICS

2017

MA IN MATHEMATICS

2012

Harvard University

Cambridge, MA

BA IN MATHEMATICS, *cum laude* IN FIELD

2010