

EDUCATION

Harvard University

- PHD (*Philosophiae Doctor*), Mathematics
- AM (*Artium Magister*), Mathematics

Cambridge, MA

June 2009

June 2007

University of Cambridge

- MAST (*Master of Advanced Study*), Mathematics, with *Merit*

Cambridge, UK

June 2003

Michigan State University

- MS (*Master of Science*), Mathematics
- Honors BS (*Bachelor of Science*), Mathematics, with *Highest Distinction*, Lyman Briggs School
- Honors BA (*Bachelor of Arts*), English, with *Highest Distinction*
- Honors BA (*Bachelor of Arts*), French, with *Highest Distinction*

East Lansing, MI

May 2002

May 2002

August 2002

August 2002

Université de Paris IV–Sorbonne

- CERTIFICAT PRATIQUE de langue française, premier degré, avec mention « *bien* »

Paris, France

April 2000

EMPLOYMENT

Google: Software Engineer III

- Assigned to team developing & maintaining core networking APIs for Google Chrome (using **C++**)

Cambridge, MA, 2018–present

University of Science & Arts of Oklahoma: Associate Professor of Mathematics

- Taught 44 courses (17 distinct) & ~400 students; spoke at 2 colloquia; received 1 grant
- Selected courses: Calculus II, III, & IV; Modern Algebra; Linear Algebra; Combinatorics; Foundations of Geometry; Math in the Modern World; World Thought & Culture III; Mathematical Methods in Physics (with **Mathematica**); Intro Computing (with **VBA**); **Python** Programming

Chickasha, OK, 2015–2018

Sweet Briar College: Assistant Professor of Mathematical Sciences

- Taught 34 courses (8 distinct) & ~400 students; mentored 8 research students; spoke at 9 conferences & 9 colloquia; received 8 grants (2 external)
- Selected courses: Calculus III; Mathematical Statistics; Algebraic Structures; Abstract Algebra; Mathematical Proofs; **Java** Programming

Sweet Briar, VA, 2009–2015

Harvard University: Teaching Fellow, Mathematics

- Taught 2 courses & ~50 students; spoke at 3 conferences & 4 colloquia; received 2 grants (1 external)
- Courses: Introduction to Functions & Calculus; Linear Algebra & Differential Equations

Cambridge, MA, 2008

Houghton Mifflin Company: Math Editor, McDougal Littell

- Customized Larson's *Geometry* for Texas schools by correlating ~80 textbook sections with Texas state standards
- Proofread & reformatted ~800 pages; wrote ~200 new standardized test preparation exercises

Boston, MA, 2005

AT&T Labs–Research: Summer Research Intern

- Researched location & tightening of upper bounds for optimal codes correcting a single transposition error
- Programmed in **Maple** to find first 10 bounds; helped to conjecture pattern for subsequent bounds

Florham Park, NJ, 2003

MAJOR SCHOLARSHIPS & FELLOWSHIPS

AT&T Labs Fellow

- 3-year full tuition, stipend, & internship

AT&T Labs–Research, 2003

National Defense Science & Engineering Graduate Fellow[†]

- 3-year full tuition & stipend

American Society for Engineering Education, 2002 & 2003

National Science Foundation Graduate Research Fellow

- 3-year full tuition & stipend

National Science Foundation, 2002

Churchill Scholar

- 1-year full tuition & stipend at Cambridge

Winston Churchill Foundation of the United States, 2002

Alumni Distinguished Scholar

- 4-year full room, board, & tuition at Michigan State

Michigan State University, 1997

National Merit Scholar: John M. Stalnaker Memorial Scholarship

- 4-year, \$10,000 total

National Merit Scholarship Corporation, 1997

SELECTED AWARDS

Google Foobar Challenge: Completed all 5 levels of invitation-only **Python** programming challenge

Google, 2017

UK Fulbright Scholar National Finalist: United States

Fulbright Scholar Program, 2002

Rhodes Scholar State Finalist: Michigan

The Rhodes Trust, 2001

Marshall Scholar Regional Finalist: Midwest

Marshall Aid Commemoration Commission, 2001

William Lowell Putnam Competition: Top 500

Mathematical Association of America, 2000 & 2001

Alice T. Schafer Mathematics Prize: Honorable Mention

Association of Women in Mathematics, 1999

Mathematical Contest in Modeling: Honorable Mention

Consortium for Mathematics & Its Applications, 1998 & 1999

Phi Beta Kappa Society: Inductee

Michigan State University, 1999

TECHNICAL SKILLS

C/C++,^Σ Python,^Σ \LaTeX ,^Σ Swift,^C Mathematica,^C VBA,^C MySQL,^λ AppleScript,^λ Maple,^R Java,^R Pascal^R

[†] declined ^Σ significant experience ^C current or recent experience ^λ limited experience & rusty ^R significant prior experience but rusty