

Software engineer & mathematician, with background in combinatorics & over 4 years of experience writing production code.

RECENT EXPERIENCE

Google: Software Engineer III *Cambridge, MA, 2018–present*

- Developed for Google Chrome/Chromium on the Privacy Sandbox team using **C++** (with infra in **Python**)
- Wrote automated unit & integration tests for production code submitted, including **JavaScript** web tests
- Main engineer in implementing the new Shared Storage API (using a **SQLite** backend)
- Frequently designed new features in addition to maintaining codebase
- Designed & implemented new panels for Shared Storage in the DevTools Frontend via **TypeScript**
- Authored ~170 changelists (including internal code), with ~12,000 lines deleted & ~52,000 lines added
- Reviewed ~100 changelists

University of Science & Arts of Oklahoma: Associate Professor of Mathematics *Chickasha, OK, 2015–2018*

- 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; Mathematical Methods in Physics (with **Mathematica**); Intro Computing (with **VBA**); **Python** Programming

Sweet Briar College: Assistant Professor of Mathematical Sciences *Sweet Briar, VA, 2009–2015*

- Taught 34 courses (8 distinct) & ~400 students
- Mentored 8 research students & received 8 grants (2 external)
- Spoke at 9 conferences & 9 colloquia
- Selected courses: Calculus III; Mathematical Statistics; Abstract Algebra; Statistical Reasoning; **Java** Programming

EDUCATION

Harvard University *Cambridge, MA*

- PHD (*Philosophiae Doctor*), Mathematics *June 2009*
- AM (*Artium Magister*), Mathematics *June 2007*

University of Cambridge *Cambridge, UK*

- MAST (*Master of Advanced Study*), Mathematics, with **Merit** *June 2003*

Michigan State University *East Lansing, MI*

- MS (*Master of Science*), Mathematics *May 2002*
- Honors BS (*Bachelor of Science*), Mathematics, with **Highest Distinction**, Lyman Briggs School *May 2002*
- Honors BA (*Bachelor of Arts*), English, with **Highest Distinction** *August 2002*
- Honors BA (*Bachelor of Arts*), French, with **Highest Distinction** *August 2002*

SELECTED AWARDS

Google Foobar Challenge: Completed all 5 levels of invitation-only **Python** programming challenge *Google, 2017*

AT&T Labs Fellow *AT&T Labs–Research, 2003*

National Science Foundation Graduate Research Fellow *National Science Foundation, 2002*

Churchill Scholar *Winston Churchill Foundation of the United States, 2002*

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 *Michigan State University, 1999*

National Merit Scholar: John M. Stalnaker Memorial Scholarship *National Merit Scholarship Corporation, 1997*

SELECTED TECHNICAL SKILLS

Current: **C/C++**; **Python**; **TypeScript**; **JavaScript**; **SQLite**; **LaTeX**; Former: **Java**; **Swift**; **Mathematica**; **Maple**