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CAMILLIA SMITH BARNES

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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

Université de Paris IV–Sorbonne — *Paris, France*
- CERTIFICAT PRATIQUE de langue française, premier degré, *avec mention « **bien** »* — April 2000

EMPLOYMENT

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; Foundations of Geometry; Math in the Modern World; World Thought & Culture III; 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; 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

Harvard University: Teaching Fellow, Mathematics — *Cambridge, MA*, 2008
- 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

Houghton Mifflin Company: Math Editor, McDougal Littell — *Boston, MA*, 2005
- 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

AT&T Labs–Research: Summer Research Intern — *Florham Park, NJ*, 2003
- 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

MAJOR SCHOLARSHIPS & FELLOWSHIPS

AT&T Labs Fellow — *AT&T Labs–Research*, 2003
- 3-year full tuition, stipend, & internship

National Defense Science & Engineering Graduate Fellow† — *American Society for Engineering Education*, 2002 & 2003
- 3-year full tuition & stipend

National Science Foundation Graduate Research Fellow — *National Science Foundation*, 2002
- 3-year full tuition & stipend

Churchill Scholar — *Winston Churchill Foundation of the United States*, 2002
- 1-year full tuition & stipend at Cambridge

Alumni Distinguished Scholar — *Michigan State University*, 1997
- 4-year full room, board, & tuition at Michigan State

National Merit Scholar: John M. Stalnaker Memorial Scholarship — *National Merit Scholarship Corporation*, 1997
- 4-year, $10,000 total

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++`;$^{\Sigma}$ `Python`;$^{\Sigma}$ LaTeX;$^{\Sigma}$ `Swift`;$^{\mathbb{C}}$ `Mathematica`;$^{\mathbb{C}}$ `VBA`;$^{\mathbb{C}}$ `MySQL`;$^{\lambda}$ `AppleScript`;$^{\lambda}$ `Maple`;$^{\mathbb{R}}$ `Java`;$^{\mathbb{R}}$ `Pascal`$^{\mathbb{R}}$

† *declined* $^{\Sigma}$ *significant experience* $^{\mathbb{C}}$ *current or recent experience* $^{\lambda}$ *limited experience & rusty* $^{\mathbb{R}}$ *significant prior experience but rusty*