

# STUDENT NAME

ADDRESS  
EMAIL; PHONE  
WEBSITE

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## RESEARCH INTERESTS

Programming languages, functional programming, (embedded) domain-specific languages, combinatorics, category theory, type theory, dependent type systems

## EDUCATION

Ph.D. in Computer Science, University of Pennsylvania, 20xx–20xx

Dissertation: *title added here*

*Expected graduation date:* December 20xx

Advisor: *advisor's name here*

B.A. in Computer Science, *summa cum laude*, Williams College, June 20xx

## AWARDS AND HONORS

Penn Prize for Excellence in Teaching by Graduate Students, 20xx

Teaching Practicum Award, University of Pennsylvania, 20xx

Sam Goldberg Colloquium Prize in Computer Science, Williams College, 20xx

Phi Beta Kappa

Milken Scholar

National Merit Scholar

## PROFESSIONAL EXPERIENCE

Visiting Assistant Professor

Williams College, Williamstown, MA, July 20xx–present

Research/Teaching Assistant

University of Pennsylvania, Philadelphia, PA, August 20xx–June 20xx

Research Intern

Microsoft Research, Cambridge, England, June–August 20xx

Worked on an experimental extension to the Glasgow Haskell Compiler with [name] and [name].

Software Developer

Ascella Technologies / CGI Federal, Washington, DC, July 20xx–July 20xx

Private Math Tutor

Washington, DC, September 20xx–June 20xx

Computer Science and Mathematics Teacher

Woodrow Wilson Senior High School, Washington, DC, August 20xx–June 20xx

Research Assistant

University of Maryland, College Park, MD, Spring 20xx

Created real-time data compression utilities for experiments in molecular physics using high-speed cameras.

## SERVICE

Steering Committee, Workshop on Functional Art, Music, Modeling, and Design (FARM), November 2014–

Publicity chair, 2013 Workshop on Functional Art, Music, Modeling, and Design (FARM)  
Co-organizer, with [name] and [name], of a new workshop bringing together academics and practitioners interested in applications of functional programming in art and design.

Program committee, Haskell Symposium 2012

Haskell core libraries committee, June 2013–June 2014

Haskell.org committee, October 2012–October 2014

Helped set policy and oversee use of funds for Haskell open-source community infrastructure.

Coordinator, Penn PLClub, June 2012–July 2014

Penn Alexander middle school math club, October 2009–November 2010.

Volunteered to help lead middle school students in a variety of fun and engaging mathematical explorations.

Editor, *The Monad Reader*, October 2009–October 2011

A free electronic magazine about functional programming, targeted at the Haskell community.

Organizer, Hac  $\phi$  (July 2009, May 2010, July 2011, August 2012, June 2013)

Open three-day meetings for collaboration on projects using the functional programming language Haskell, with around 30 attendees.

Editor, *Haskell Weekly News*, June 2008–August 2009

Collected and published a weekly gathering of news items from the Haskell programming language community.

## REFEREED PUBLICATIONS

NAME. Monoids: Theme and Variations (*Functional Pearl*). In *Proceedings of the 5th ACM SIGPLAN Symposium on Haskell* (Haskell '12, acceptance rate 41%), pp. xx-xx.

NAME, name, name, name, name, and name. Giving Haskell a Promotion. In *Proceedings of the 8th ACM SIGPLAN Workshop on Types in Language Design and Implementation* (TLDI '12), pp. xx-xx.

NAME, name, and name. Binders Unbound. In *Proceedings of the 16th ACM SIGPLAN International Conference on Functional Programming* (ICFP'11, acceptance rate 36%), pp. xx-xx.

NAME. Species and Functors and Types, Oh My! (*Functional Pearl*). In *Proceedings of the 3rd ACM SIGPLAN Symposium on Haskell* (Haskell '10, acceptance rate 39%), pp. xx-xx.

## IN PREPARATION

NAME, name, and name. Combinatorial Species and Labeled Structures (working title). Using the theory of combinatorial species as a foundational basis for a richer, unified notion of data types in programming languages.

NAME and name. Matrices of Types (working title).

Forming polymorphic data types with restrictions, using a homomorphism from the semiring of types to the semiring of matrices over types.

## BOOKS

NAME, name, name, name, name, name, and name. *Software Foundations*. Website.

## OTHER PUBLICATIONS

NAME. *The Typeclassopedia*. In: The Monad.Reader, Issue 13, March 20xx.

NAME. *Generating Multiset Partitions*. In: The Monad.Reader, Issue 8, Sept 20xx.

NAME. [blog:http://NAME.wordpress.com](http://NAME.wordpress.com).

A blog aimed at the academic community, for discussing current ideas and research.  
June 20xx–present.

NAME. *The Math Less Traveled*. <http://www.NAME.com>.

A blog aimed at a broad audience, especially high school students, exploring beautiful ideas in mathematics. March 20xx–present.

## SELECTED TALKS

*Diagrams: Declarative Vector Graphics in Haskell*.

Invited talk at New York Haskell Users' Group. November 20, 20xx.

*Trees and Things (with Semirings!)*.

Invited talk at Houghton College. October 29, 20xx.

Williams College. February 26, 20xx.

*Functional Active Animation*.

Workshop on Functional Art, Music, Modeling and Design (FARM). September 28, 20xx.

*Monoids: Theme and Variations*.

Haskell Symposium. September 13, 20xx.

*Embedded, functional, compositional drawing*.

Invited talk at Williams College. April 13, 20xx.

## TEACHING EXPERIENCE

Williams College

CS 134, Introduction to Computer Science (co-taught with NAME, F'14)

CS 136, Data Structures and Advanced Programming (S'15)

University of Pennsylvania

Earned teaching certificate through Penn Center for Teaching and Learning

CIS 194, Introduction to Haskell (Course designer and instructor — F'10, S'12, S'13)

CIS 399, The Art of Recursion (Course designer and instructor — F'12)

Correspondence course in precalculus with two homeschool students (Course designer and instructor — 2008-2009)

Woodrow Wilson Senior High School, Washington, DC, 2004–2006

Introduction to Computer Science

AP Computer Science AB

Williams College, Williamstown, MA, 2001–2004

Discrete Mathematics (TA, S'01)

Computer Organization and Architecture (TA, F'01, F'02, F'03)

Abstract Algebra (TA, S'03)

## PERSONAL

Excellent classical pianist. Enjoy playing bridge and go. Good reading knowledge of ancient Greek; currently learning ancient Hebrew.