AMELIA A. MCNAMARA

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EDUCATION

Field: Statistics

University of California - Los Angeles, Los Angeles, CA

Ph.D. candidate

GPA 3.90

Honors: Chancellor's Prize Summer Fellowship (2010-2011),

National Science Foundation Graduate Research Fellowship Program Honorable Mention (2012)

Macalester College, St. Paul, MN

B.A. May 2010

Majors: Mathematics, English

GPA 3.63

Honors: Cum laude honors (2010), Dean's List (Fall 2008, Spring 2009, Spring 2010), Alliss Scholarship (2007-2010), Xcel Energy Foundation Scholarship (2009-2010), Konhauser Prize for Mathematical

Achievement (2010)

University of Cincinnati, Cincinnati, OH

2006-2007

College: Design, Architecture, Art and Planning (DAAP)

GPA 3.80

Honors: UC|21 Scholar, National Merit Scholar

RESEARCH

Viewpoints Research Institute, Glendale, CA

Summer 2013-present

Intern, Communications Design Group

- · Work with VPRI team to conceptualize new tools for collaborative work
- · Develop R code and packages
- · Director: Alan Kay

Center for Embedded Network Sensing, Los Angeles, CA

Summer 2011-present

Graduate Student Researcher, Mobilize Project

- · Develop curriculum to be deployed in LAUSD public schools
- · Train teachers on basic statistical concepts, use of inquiry in teaching, and basic statistical software
- · Advisor: Mark Hansen

Macalester College, St. Paul, MN

Summers 2009, 2010

Undergraduate Researcher, XMAC lab

- · Performed numerical analysis of Turing patterns
- · Advisor: Chad Topaz
- · Coauthored paper: A. Catllá, A. McNamara, and C.M. Topaz. Instabilities and patterns in coupled reaction-diffusion layers, Phys. Rev. E 85 (2) (2012) 026215.

Institute for Mathematics and its Applications, Minneapolis, MN

Summer 2009

- REU Participant
- · Participated in a National Science Foundation Research Experience for Undergraduates (REU)
- · Studied a model and optimization for organic photovoltaic cells
- · Advisors: Fadil Santosa, Tsvetanka Sendova

EMPLOYMENT

UCLA Statistics Department, Los Angeles, CA

2013-present

Statistics Teaching Assistant

- · Led weekly discussion section for students
- · Held twice-weekly office hours
- · Assisted students' statistics and R learning
- · Graded exams and homework

Macalester College Math Department, St. Paul, MN

2009-2010

Applied Calculus Preceptor

- · Held weekly office hours
- · Taught students calculus and R skills
- · Graded homework and projects

Hamline University, St. Paul, MN

2008-2010

MathMasters Tutor

- · Tutored groups of ninth-grade students who were in danger of failing basic standard math exams
- \cdot Material covered was algebra and geometry
- · Tailored work to individual students

Macalester College Media Services, St. Paul, MN

2007-2010

Acquisition Specialist

- · Organized interlibrary loans and intralibrary reserve matierals
- · Set up and ran audio-visual equipment
- · Answered phones
- · Shelved materials
- · Opened and closed department

SKILLS

Language Conversational in Spanish

Design Adobe suite (Illustrator, InDesign, etc.), HTML and CSS

Office Microsoft Office suite, copy editing, proofreading

Technical Software Matlab, Mathematica, R, Comsol, ArcGIS, Python, LaTeX, JavaScript

PAPERS

Instabilities and Patterns in Coupled Reaction-Diffusion Layers

February 2012

Anne J. Catllá, Amelia McNamara and Chad M. Topaz

Physical Review E

PRESENTATIONS

Data Visualization on the Soul of the Community

August 2013 Montreal, QC

Joint Statistical Meetings

January 2010

Joint Meeting of AMS and MAA

San Francisco, CA

Model and Optimization of Organic Photovoltaic Cells

Model and Optimization of Organic Photovoltaic Cells

Undergraduate Research Symposium, University of Chicago

November 2009 Chicago, IL

Model and Optimization of Organic Photovoltaic Cells Macalester College	October 2009 St. Paul, MN
Model and Optimization of Organic Photovoltaic Cells Institute for Mathematics and its Applications	$\begin{array}{c} {\rm July\ 2009} \\ {\it Minneapolis,\ MN} \end{array}$
ADDITIONAL CONFERENCES AND WORKSHOPS ATTENDED	
Eyeo Festival Converge to Inspire	June 2013 Minneapolis, MN
Computation + Journalism Symposium 2^{nd} Symposium on Computation + Journalism	January 2013 Atlanta, GA
Math Science Partnership Learning Network Conference Implementation: From Vision to Impact	January 2013 $Washington, DC$
Interface Symposium: Future of Statistical Computing Internet Scale Data, Flexible Modeling, and Visualization	$\begin{array}{c} \text{May 2012} \\ \textit{Houston, TX} \end{array}$
Math Science Partnership Learning Network Conference Framing Effective Teaching in STEM	January 2012 Washington, DC
Workshop at the Statistical and Applied Mathematical Sciences Inst Space-Time Analysis for Environmental Mapping, Epidemiology and Climate C	
Workshop at the University of California, Berkeley Explorations in Statistics Research	Summer 2009 Berkeley, CA
SERVICE TO DEPARTMENT, PROFESSION AND COLLEGE	
Planning member, UCLA Statistics Department DataFest Assisted in planning and executing the annual DataFest weekend-long event for	2012-present r undergraduates.
Tour Coordinator, UCLA Graduate Student Orientation Planning Corganized volunteer tour guides, prepared tour materials and checked routes committee, discussed general issues.	
Voting Member, UCLA Graduate Resource Center Oversight Comm Assisted in developing new strategic plan for UCLA's graduate resource center	
Voting Member, Macalester College Honorary Degree Committee Assisted in the determination of honorary degree recipients from the college	2010
Voting member, Macalester College Financial Affairs Commission (H	FAC) 2009-2010

The FAC is responsible for maintaining the student government's \$100,000 yearly budget

Participated in monthly department meetings, provided students' perspectives to faculty

2008-2009

Department Liaison, Macalester College Math Department

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Computer Programming Languages and Systems

Human/Computer Interaction

	2013-prese
	2012-prese
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	2008-20
UCLA	Fall 2010
UCLA	Fall 2010
UCLA	Winter 2011
UCLA	Winter 2011
UCLA	Winter 2011
UCLA	Spring 2011
UCLA	Fall 2011
UCLA	Winter 2012
UCLA	Spring 2012
Macalester College	Fall 2007
Macalester College	Spring 2008
Macalester College	Spring 2008
Macalester College	Fall 2008
Macalester College	Spring 2009
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Coursera UCLA	Fall 2012 Fall 2012
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UCLA

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Winter 2013

Winter 2013