

# AMELIA A. MCNAMARA

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## RESEARCH INTERESTS

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Statistical computing, statistics education, data visualization, reproducible research, spatial statistics

## EDUCATION

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**Ph.D., Statistics** 2015

**University of California - Los Angeles** Los Angeles, CA

Dissertation: Bridging the Gap Between Tools for Learning and for Doing Statistics

Committee: Robert Gould and Fredrick Paik Schoenberg (co-chairs, statistics), Mark Handcock (statistics), Todd Millstein (computer science), Alan Kay (computer science).

**B.A., Mathematics and English** 2010

**Macalester College** St. Paul, MN

## ACADEMIC APPOINTMENTS

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**Assistant Professor** 2018-present

University of St Thomas Department of Computer & Information Sciences St Paul, MN

**Visiting Assistant Professor** 2015-2018

Smith College Program in Statistical and Data Science Northampton, MA

*MassMutual Faculty Fellow*

## PEER-REVIEWED PUBLICATIONS

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**McNamara, A. Key Attributes of a Modern Statistical Computing Tool.** *The American Statistician*. (accepted, to appear August 2019)

Rafalski, T., Uesback, P. M., Panks-Meloney, C., Daleiden, P., Allee, W., **McNamara, A.** and Stefik, A. **A Randomized Controlled Trial on the Wild Wild West of Scientific Computing with Student Learners.** *ICER'19 Proceedings* (accepted, to appear August 2019).

**McNamara, A. Community Engagement and Subgroup Meta-Knowledge: Some Factors in the Soul of a Community.** *Computational Statistics*. (accepted, to appear)

Gould, R., Wild, C. J., Baglin, J., **McNamara, A.**, Ridgway, J., McConway, K, “Revolutions in Teaching and Learning Statistics: A Collection of Reflections” in *Springer International Handbook of Research in Statistics Education* (Ben-Zvi, D., Makar, K., eds), Springer International Handbook of Education series. (2018).

**McNamara, A.**, and Horton, N. J. **Wrangling Categorical Data in R.**

Special issue, jointly published in Practical Data Science for Stats, *PeerJ Preprint Collection*, 5:e3163v2 (2017) and *The American Statistician*. Vol. 72, Issue 1. (2017).

Catllá, A.J., **McNamara, A.** and Topaz, C. M. **Instabilities and Patterns in Coupled Reaction-Diffusion Layers.** *Physical Review E*, Vol. 85, Issue 2. (2012).

## OTHER WRITING

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**McNamara, A. Teaching Statistics, A Bag of Tricks** (book review). *The American Statistician*, Vol. 72, No. 2. (2018).

Lunzer, A., and **McNamara, A. Exploring Histograms**: Interactive essay. Available online at <http://tinlizzie.org/histograms/> (2017).

**McNamara, A.**, Horton, N. J., and Baumer, B. S. **Greater Data Science at Baccalaureate Institutions**. Invited comment as part of discussion for David Donoho's 50 Years of Data Science. *Journal of Computational and Graphical Statistics*. Vol. 26, No. 4, 781-783 (2017).

**McNamara, A. Barriers and Opportunities for Nurturing Statistical Thinking before College** *CHANCE*, Vol. 28, Issue 4. (2015).

**McNamara, A.** and Hansen, M. **Teaching Data Science to Teenagers**. *Proceedings of the 9th International Conference on Teaching Statistics*. (2014).

**McNamara, A. Dynamic Documents with R and knitr** (book review). *Journal of Statistical Software*, Vol. 56, Book Review 2. (2014).

## IN PROGRESS

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**McNamara, A. On the State of Computing in Statistics Education: Tools for Learning and for Doing.**

**McNamara, A.**, student coauthors to be determined. **Interactive methods to address the change of support problem.**

Molyneux, J., and **McNamara, A. mobilizr: An R package for high school data scientists.**

## TEACHING

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**University of St Thomas** Department of Computer & Information Sciences

STAT 220: **Statistics I** Fall 2018, Spring 2019

STAT 320: **Statistics II** Fall 2018

STAT 360: **Advanced Statistical Software** Spring 2019

**Smith College** Program in Statistical and Data Sciences 2015-2018

SDS 236: **Data Journalism** Spring 2018

SDS 136: **Communicating with Data** Fall 2017

SDS/MTH 220: **Introduction to Statistics and Probability** Fall 2015, Spring 2016, Fall 2017

SDS/MTH 220: **Introduction to Statistics and Probability** (lab) Fall 2015, Spring 2016

SDS/MTH 291: **Multiple Regression** Spring 2016, Fall 2016

**MassMutual** Data Science Development Program

**Data visualization seminar** (with Jordan Crouser) Summer 2016, Summer 2017

**Advanced git and R** Summer 2018

**University of California, Los Angeles** Statistics Department 2013-2015

STAT 98T: **Data Visualization** (Instructor of record, Collegium of University Teaching Fellows)

STAT 101A: **Introduction to Data Analysis and Regression** (Teaching fellow)

STAT 102B: **Introduction to Computation and Optimization** (Teaching fellow)

STAT 101C: **Introduction to Regression and Data Mining** (Teaching fellow)

**Mobilize Project** Professional Development Program 2011-2014  
 Professional Development: **Exploring Computer Science** (Leader)  
 Professional Development: **Math and Science** (Leader)  
 Professional Development: **Introduction to Data Science** (Leader)

## AWARDS

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**Teaching Integrity in Empirical Research Faculty Fellow**, Haverford College 2015-2016  
**Collegium of University Teaching Fellows**, University of California, Los Angeles 2014-2015  
**Dissertation Year Fellowship**, University of California, Los Angeles 2014-2015  
**Graduate Research Fellowship Program**, National Science Foundation 2012  
**Chancellor’s Prize Summer Fellowship**, University of California, Los Angeles 2011-2012  
**Konhauser Prize for Mathematical Achievement**, Macalester College 2010

## RESEARCH AND CONSULTING

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**Smith College**, Northampton, MA 2015-2018  
*Visiting Assistant Professor*

At Smith College, my research program focused on statistics education, statistical computing, data visualization, and spatial statistics. In Spring 2016 and Spring 2017, I led groups of undergraduate and post-baccalaureate students as part of the MTH 301 independent research seminar. We focused on Methods to Address the Change of Support and Modifiable Areal Unit Problems.

**The Concord Consortium**, Emeryville, CA September 2016-March 2017  
*Consultant*

Worked with William Finzer and the Common Online Data Analysis Platform (CODAP) on integrating ‘Data Science Moves’ into CODAP.

**Viewpoints Research Institute**, Los Angeles, CA September 2016-January 2017  
*Consultant*

Continued collaboration with Aran Lunzer to develop interactive essays related to the impacts of data aggregation in 1- and 2-D.

**Viewpoints Research Institute**, Los Angeles, CA 2013-2015  
*Graduate Intern*

The Viewpoints Research Group is a research group with a variety of interests including the future of programming, internet-scale computing, and programming language design. I collaborated with other researchers on projects to improve statistical computing tools for novices (those with no statistics or programming experience). Examples include **LivelyR** with Aran Lunzer and **locatr** with Ted Kaehler. Director: Alan Kay.

**Mobilize Project**, Los Angeles, CA 2011-2014  
*Graduate Student Researcher*

The Mobilize project brings data analysis and statistics to life by allowing high school students to collect information about the world around them using mobile phones, then analyze the data and do something with it. As a graduate student researcher, I developed curriculum to be deployed in LAUSD public high schools, including the innovative Introduction to Data Science course. Over hundreds of hours of professional development, I trained teachers on basic statistical concepts, use of inquiry in teaching, and basic statistical software. Principal Investigator: Rob Gould.

## SHORT COURSES AND WORKSHOPS LED

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<b>StatPREP Workshop</b> (with team) Howard Community College	June 2019 <i>Columbia, MD</i>
<b>Helping the Data Speak</b> (TA for Nathan Yau) eyeo festival workshop	June 2019 <i>Minneapolis, MN</i>
<b>git and GitHub Cornucopia</b> uncoast unconf, John Deere Financial	April 2019 <i>Des Moines, IA</i>
<b>Data Science in the Tidyverse</b> (with Hadley Wickham) rstudio::conf	January 2019 <i>Austin, TX</i>
<b>StatPREP Workshop</b> (with team) University of Hartford	June 2018 <i>Hartford, CT</i>
<b>Intro to R &amp; RStudio</b> rstudio::conf	January 2018 <i>San Diego, CA</i>
<b>Master the Tidyverse</b> (TA for Garrett Grolemond) RStudio workshop	October 2017 <i>Washington, DC</i>
<b>StatPREP Workshop</b> (with team) St. Catherine University	June 2017 <i>St. Paul, MN</i>
<b>Data Science for Statisticians</b> ENAR, International Biometric Society Meeting	March 2017 <i>Washington, DC</i>
<b>Introduction to R</b> (with Coulter Jones) NICAR, Investigative Reporters & Editors Conference	March 2016 <i>Denver, CO</i>

## INVITED TALKS

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<b>Data Journalism as a Liberal Art</b> LACOL Data Science in the Liberal Arts, Washington and Lee University	June 2019 <i>Lexington, VA</i>
<b>Teaching Data Communication</b> Symposium on Statistics and Data Science (SDSS)	May 2019 <i>Bellevue, WA</i>
<b>Wrangling Categorical Data in R Without Losing your Mind</b> rstudio::conf	January 2019 <i>Austin, TX</i>
<b>Key Attributes of a Modern Statistical Computing Tool</b> Statistics Department Seminar, Oregon State University	October 2018 <i>Corvallis, OR</i>
<b>How Spatial Polygons Shape Our World</b> University of Minnesota Institute for Advanced Study	September 2018 <i>Minneapolis, MN</i>
<b>How Software Affects Humans' Conceptions of Data: Case Study in R Syntaxes</b> Joint Statistical Meetings	Aug 2018 <i>Vancouver, BC</i>
<b>Imagining the Future of Statistical Education Software</b> International Conference on Teaching Statistics (ICOTS)	July 2018 <i>Kyoto, Japan</i>

<b>Making Spatial Aggregation More Transparent</b> 2018 CGA Conference: Illuminating Space and Time in Data Science. Harvard University <i>Cambridge, MA</i>	April 2018
<b>Data Science as a Superpower</b> Introduction to Data Science Big Data Day	April 2018 <i>Los Angeles, CA</i>
<b>Scientists Programming</b> Evidence about Programmers, Schloss Dagstuhl	February 2018 <i>Wadern, Germany</i>
<b>Interfacing with Data</b> Data Literacy Conference	September 2017 <i>Aix-en-Provence, France</i>
<b>Key Attributes of a Modern Statistical Computing Tool</b> Tableau Software	March 2017 <i>Seattle, WA</i>
<b>Using Data Visualization to Find Patterns in Multidimensional Data</b> Department of Mathematics, Statistics, and Computer Science St. Olaf College	March 2017 <i>Northfield, MN</i>
<b>Bridging the Gap Between Tools for Learning and for Doing Statistics</b> Department of Educational Psychology, University of Minnesota	November 2016 <i>Minneapolis, MN</i>
<b>Bridging the Gap Between Tools for Learning and for Doing Statistics</b> Department of Statistics, University of Massachusetts - Amherst	March 2016 <i>Amherst, MA</i>
<b>Statistical Programming— Past, Present, and Future</b> Department of Statistics, California State University, Fullerton	December 2014 <i>Fullerton, CA</i>
<b>Teaching Data Science to Teenagers</b> (with Mark Hansen) International Conference on Teaching Statistics	July 2014 <i>Flagstaff, AZ</i>

## CONFERENCE PRESENTATIONS

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<b>Visualizing Data by Hand</b> SRCCON	June 2018 <i>Minneapolis, MN</i>
<b>Teaching Students Reproducibility</b> Electronic Conference on Teaching Statistics (eCOTS)	May 2018 <i>online</i>
<b>How Spatial Polygons Shape Our World</b> OpenVisConf	April 2017 <i>Boston, MA</i>
<b>The Incredible Importance of Variability</b> THINK Conference	November 2016 <i>Bay Area, CA</i>
<b>Pushing the Boundary Between Tools for Learning and for Doing Statistics</b> Joint Statistical Meetings	August 2016 <i>Chicago, IL</i>
<b>The Importance of Parameter Manipulation for Statistics</b> Society for Industrial and Applied Mathematics Annual Meeting	July 2016 <i>Boston, MA</i>
<b>Integrated R Labs for High School Students</b> useR! The R User Conference	June 2016 <i>Stanford, CA</i>

<b>The Gap Between Tools for Learning and for Doing Statistics</b> Electronic Conference on Teaching Statistics	May 2016 <i>online</i>
<b>Do you know Nothing when you see it?</b> OpenVisConf	April 2016 <i>Boston, MA</i>
<b>Using Data Visualization to Find Patterns in Multidimensional Data</b> Big Data Day LA	June 2015 <i>Los Angeles, CA</i>
<b>Teaching R to High School Students</b> (with James Molyneux) useR! The R User Conference	July 2014 <i>Los Angeles, CA</i>
<b>LivelyR: Making R Charts Livelier</b> (with Aran Lunzer) useR! The R User Conference	July 2014 <i>Los Angeles, CA</i>
<b>Mobilize Project</b> (with Jane Margolis and LeeAnn Trusela) Math Science Partnership Learning Network Conference	January 2012 <i>Washington, DC</i>
<b>Model and Optimization of Organic Photovoltaic Cells</b> Joint Meeting of AMS and MAA	January 2010 <i>San Francisco, CA</i>

## PANELS AND ROUNDTABLES

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<b>Fireside Chat</b> (panelist) Symposium on Statistics and Data Science (SDSS)	June 2019 <i>Bellevue, WA</i>
<b>Data Science Education Panel</b> (panelist) Women in Data Science Conference	January 2018 <i>Boston, MA</i>
<b>Data Science at Women's Colleges</b> (panelist) Women in Statistics and Data Science Conference (WSDS)	October 2017 <i>San Diego, CA</i>
<b>Local Data Science Panel Presentation</b> (panelist) Women in Data Science (WiDS) satellite conference, Mt Holyoke College	February 2017 <i>South Hadley, MA</i>
<b>Graphics Software: Favorites and Best Practices</b> (roundtable leader) Joint Statistical Meetings	August 2016 <i>Chicago, IL</i>
<b>Implications for Curriculum</b> (panelist) Alliance to Advance Liberal Arts Colleges (AALAC) Big Data Workshop	January 2016 <i>Wellesley, MA</i>
<b>heR Panel Discussion</b> (panelist) useR! The R User Conference	July 2014 <i>Los Angeles, CA</i>

## POSTER PRESENTATIONS

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<b>Pushing the Boundary Between Tools for Learning and for Doing Statistics</b> Joint Statistical Meetings	August 2016 <i>Chicago, IL</i>
<b>It Ain't Necessarily So: Checking Charts for Robustness</b> (with A. Lunzer) IEEE Vis Conference	November 2014 <i>Paris, France</i>
<b>Tools for Teaching Data Science</b> Women in Statistics Conference	May 2014 <i>Cary, NC</i>

<b>Data Visualization on the Soul of the Community</b> Joint Statistical Meetings	August 2013 <i>Montreal, QC</i>
<b>Model and Optimization of Organic Photovoltaic Cells</b> Joint Meeting of AMS and MAA, San Francisco, CA	January 2010
Undergraduate Research Symposium, University of Chicago	November 2009
Macalester College, St Paul, MN	October 2009
Institute for Mathematics and its Applications, Minneapolis, MN	July 2009

## INVITED WORKSHOPS AND HACKATHONS

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<b>uncoast unconf</b> John Deere Financial	April 2019 <i>Des Moines, IA</i>
<b>Evidence About Programmers for Programming Language Design</b> Schloss Dagstuhl	February 2018 <i>Wadern, Germany</i>
<b>Teaching Integrity in Empirical Research Workshop</b> Haverford College	June 2017 <i>Haverford, PA</i>
<b>rOpenSci hackathon</b> CrossCampus	May 2017 <i>Los Angeles, CA</i>
<b>Designing for Uncertainty in HCI</b> CHI Conference	May 2017 <i>Denver, CO</i>
<b>Moving Transparent Statistics Forward</b> CHI Conference	May 2017 <i>Denver, CO</i>
<b>Youth, Learning and Data Science Summit</b> University of California, Berkeley	August 2016 <i>Berkeley, CA</i>
<b>Teaching Integrity in Empirical Research Workshop</b> Haverford College	June 2016 <i>Haverford, PA</i>
<b>rOpenSci hackathon</b> GitHub	March 2014 <i>San Francisco, CA</i>

## LOCAL CONTRIBUTIONS

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<b>Activities and Thoughts on Teaching a “Data Science for All” Course</b> Southern MN StatChat, St Olaf College	April 2019 <i>Northfield, MN</i>
<b>Handmade Data Viz</b> StatChat, Macalester College	April 2019 <i>St Paul, MN</i>
<b>Working with Spatial Data: Implications of the Change of Support Problem</b> Applied Probability and Statistics Seminar, University of St Thomas	May 2019 <i>St Paul, MN</i>
<b>Working with Spatial Data: Implications of the Change of Support Problem</b> Guest lecture, PUBH 7462: Advanced Programming and Data Analysis in R, UMN <i>Minneapolis, MN</i>	April 2019

<b>R-Ladies Panel</b> (virtual panelist) Amherst R-Ladies	March 2019 <i>Amherst, MA</i>
<b>Speed Networking Workshop</b> University of St Thomas Association of Women in Science (WINS)	December 2018 <i>St Paul, MN</i>
<b>The Power of Algorithms for Good and for Evil</b> World Usability Day, University of Minnesota	November 2018 <i>Minneapolis, MN</i>
<b>Women in Science</b> (panelist) University of St Thomas Association of Women in Science (WINS)	November 2018 <i>St Paul, MN</i>
<b>Algorithmic Accountability</b> Otelia Cromwell Day workshop, Smith College	November 2017 <i>Northampton, MA</i>
<b>Topic IV: Visualization</b> , with Ben Baumer New England Isolated Statisticians Meeting, Stonehill College	November 2017 <i>Easton, MA</i>
<b>Big Data, Polling, and the Politics of Education</b> Guest lecture, AMS 100: Thinking Through the 2016 Election, Smith College	March 2017 <i>Northampton, MA</i>
<b>What's Missing? Identifying the Gaps, Biases, and Omissions in Digital Data</b> Guest lecture, IDP 160: Digital Effects, Smith College	Oct. 2016 <i>Northampton, MA</i>
<b>Futurisms, part II: Intersections: Digital Humanities, Interactive Media and Cultural Heritage</b> (faculty fellow) Smith College Kahn Institute	February 2016 <i>Northampton, MA</i>
<b>Futurisms, part I: The Ten Thousand Year Collection</b> (faculty fellow) Smith College Kahn Institute	December 2015 <i>Northampton, MA</i>
<b>Using Data Visualization to Find Patterns in Multidimensional Data</b> Guest lecture, CS 342: Statistical Learning, Hampshire College	November 2015 <i>Amherst, MA</i>
<b>Using Data Visualization to Find Patterns in Multidimensional Data</b> Western Mass Data Science, Stats, and R Meetup	November 2015 <i>Amherst, MA</i>
<b>Eyedo Highlights</b> Datavis LA Meetup	August 2014 <i>Los Angeles, CA</i>

## SERVICE TO DEPARTMENT, INSTITUTION, AND PROFESSION

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<b>University of St Thomas Technology Advisory Committee (UTAC)</b> Committee Member · This four-year appointment begins Fall 2019	2019-2023
<b>University of St Thomas HHMI Inclusive Excellence Grant</b> Inclusive Excellence Advisor · Participated in Inclusive Excellence Training (May 2019) · Attended welcoming events for incoming first-year students · Will be serving as an Inclusive Excellence Advisor for 10 incoming first-year students for the 2019-2020 school year	2019-present



- University of St Thomas HHMI Inclusive Excellence Grant** 2018-present  
CISC representative
- Attended HHMI meetings and luncheons, representing the Computer & Information Sciences Department's interests and reporting back to the department
- University of St Thomas Statistics Program Committee** 2018-present  
Member
- Assisted in the development of new curriculum for the statistics program, including changes to the statistics major and minor, the development and proposal of new upper-level courses, and discussion of statistics-related courses in other disciplines.
- Joint Statistical Meetings Program Committee** 2019-2020  
Statistics and Data Science Education Section Chair
- As section chair-elect, organized roundtables and Birds of a Feather sessions for the Section on Statistics and Data Science Education for JSM 2019
  - Served as proxy for current section chair at March 2019 JSM organizing meeting in Alexandria, VA
  - As section chair, will organize invited sessions, contributed sessions, and poster sessions for the Section on Statistics and Data Science Education for JSM 2020
- Statistics and Data Science Symposium Program Committee** 2018-2019  
Visualization co-chair, with Silas Bergan
- As co-chair, helped organize invited sessions on visualization for SDSS
  - As co-chair, organized and scheduled contributed sessions on visualization for SDSS
- Smith College Statistical and Data Sciences Program Committee** 2015-2018  
Faculty member
- Assisted in developing the major in Statistical and Data Sciences (approved April 2016).
  - Voted on departmental policy about honors theses, special studies, course waivers, and the like.
  - Organized invited talk by Amanda Cox (long time member of the graphics team at The New York Times, now editor of The Upshot), attended by almost 200 people from the college and community.
  - Organized invited talk by Christine Zhang '09 (alumna and recipient of 2016 Mozilla Open News Fellowship, data journalist at the LA Times), attended by approximately 100 people.
  - Managing Twitter presence @SmithCollegeSDS.
- Women in Statistics and Data Science Conference (WSDS)** San Diego, CA 2017  
Panel chair
- WSDS R-Ladies Panel: Improving Gender Diversity in a Male-Dominated Community
- Joint Statistical Meetings** Chicago, IL 2016  
Session Chair
- Toward Better Communication of Information with Statistical Graphics – Contributed Papers
  - Reproducibility in Statistics and Data Science – Invited Papers (substitute chair)
- Five College DataFest** 2015-2018  
Co-organizer with Ben Baumer
- Planned and executed the 2016 and 2017 FiveCollege DataFests
  - DataFest is a weekend-long data hackathon event for more than 100 undergraduate students from Smith, Mt Holyoke, Hampshire, Amherst, and UMass Amherst.
  - Managed social media, including Wordpress website and Twitter presence @FiveCollegeStat.
  - Recruited data science experts to serve as VIP visitors and judges.
  - Solicited donations from corporations like Google and RStudio.

- Coordinated prizes and swag for students.

### **University of California, Los Angeles DataFest**

2011-2015

Planning Member

- As a graduate student, assisted in planning and executing the 2012, 2013, 2014, and 2015 UCLA DataFests for undergraduates, attended by 100-200 undergraduate students from UCLA, the University of Southern California, Pomona College, California Polytechnic State University San Luis Obispo, and the University of California, Riverside.
- Managed Twitter presence @UCLADataFest.
- Served as on-the-ground-advisor for students at the event, discussing ideas and coding issues.
- Assisted in coordinating donations and swag from corporations like GitHub, Google, Revolution Analytics, and RStudio.

### **Los Angeles useR! Conference Organizing Committee**

2013-2014

Planning Member

- Assisted in planning and executing the 2014 international R user conference (700 attendees).
- Recruited and coordinated 80 student volunteers.
- Assisted with conference website before, during, and after the conference.
- Promoted conference on social media, encouraged minority participation.
- Supervised on-the-ground conference logistics, including registration, catering, and facilities services.

### **UCLA Graduate Student Orientation Planning Committee**

2012-2013

Tour Coordinator

- Helped plan and execute the 2012 and 2013 UCLA grad student orientations, attended by 1,000+ incoming graduate students each year.
- Discussed general orientation issues, such as panel topics and logistical concerns.
- Organized and trained 15 volunteer tour guides to lead tours campus.
- Prepared tour materials and checked routes for North Campus, South Campus, and General tours.
- On the day of orientation, coordinated hourly tours and assigned tour guides to routes.

### **Macalester College Admissions**

2013-present

Volunteer interviewer and college representative

- Performed alumni interviews of prospective students applying to Macalester in Southern California and Western Massachusetts
- Represented Macalester at the 2015 Vistamar College Fair, answering questions about Macalester and the admissions process

### **Southern California AP Statistics Poster Competition**

2014

Judge

- Judged entries to the 2014 Southern California AP Statistics Poster Competition

### **UC Day in DC**

May 2013

University of California, Los Angeles Delegate

- Represented UCLA and graduate student interests at the University of California's annual federal advocacy day in Washington, DC.
- Met with congress members and their staff to discuss Federal funding for programs impacting grad students.

### **UCLA Graduate Resource Center Oversight Committee**

2011-2012

Voting Member

- Assisted in developing a new strategic plan for UCLA's graduate resource center

**Ad-hoc referee**

2014-present

Journals:

- Journal of Statistics Education (JSE)
- Journal of Statistical Software (JSS)
- Statistics Education Research Journal (SERJ)
- Technology Innovations in Statistics Education (TISE)
- The American Statistician (TAS)
- Computer Science Education (CSE)
- PLOS Biology

**Ad-hoc referee**

2017-present

Conferences:

- Institute of Electrical and Electronics Engineers Vis Conference (IEEE VIS)
- Conference on Human Factors in Computing Systems (CHI)

**SKILLS**


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<b>Languages</b>	Expert: R, $\text{\LaTeX}$ , HTML, Markdown Intermediate: Spanish, Python, git, JavaScript, Matlab, Mathematica, ArcGIS
<b>Social Media</b>	Twitter: <b>@AmeliaMN</b> , 9,400+ tweets, 8,500+ followers Currently managing Formerly managed <b>@SmithCollegeSDS</b> , <b>@FiveCollegeStat</b> , <b>@UCLADataFest</b> , <b>@user2014_UCLA</b>

**MEMBERSHIPS IN PROFESSIONAL SOCIETIES**


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<b>American Statistical Association (ASA)</b>	2012-present
<b>Association for Women in Mathematics (AWM)</b>	2008-2010, 2014-present
<b>Society for Industrial and Applied Mathematics (SIAM)</b>	2012-2016
<b>Institute of Electrical and Electronics Engineers (IEEE)</b>	2016-2017
<b>WNAR: International Biometric Society (WNAR)</b>	2013-2014