

Jaelle Scheuerman

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EDUCATION

Ph.D. in Computer Science

Tulane University

August 2015 - May 2020 (expected)

M.S. in Human Computer Interaction

Iowa State University

January 2012 - December 2014

B.S. in Computer Science

South Dakota School of Mines & Technology

August 2007 - May 2010

A.S. in Computer Science

Casper College

August 2002 - May 2004

RESEARCH EXPERIENCE

Computer Science Trainee

Geospatial Human Computer Interaction Division, Naval Research Lab, Adviser: Noelle Brown

September 2016 - present

- Conducts basic and applied scientific research in the area of human-systems integration.

Research Assistant

Department of Computer Science, Tulane University, Adviser: K. Brent Venable

August 2015 - present

- Developing computational model of cognitive processes for spatial auditory attention.

Collaborative Research Experience for Undergraduates

CRA-W, Adviser: Antonette Logar

August 2009 - May 2010

- Developed a framework to assist K-12 teachers in designing interactive multitouch exhibits.

Undergraduate Research Assistant

South Dakota School of Mines & Technology, Adviser: Antonette Logar

November 2008 - May 2010

- Researched usability, gathered feedback and designed a graphical user interface standard to improve web applications.

TEACHING EXPERIENCE

Instructor

Department of Computer Science, Tulane University

August 2018 - Present

- CMPS 1500: Intro to Computer Science I, Fall 2018

Teaching Assistant

Department of Computer Science, Tulane University

August 2015 - May 2017

- CMPS 1500: Intro to Computer Science I, Fall 2015
- CMPS 1600: Intro to Computer Science II, Spring 2016, Spring 2017
- CMPS 2200: Intro to Algorithms, Fall 2015
- CMPS 3300: Software Studio, Fall 2016

Co-Instructor

Tulane University

August 2014 - December 2015

- TIDE1022: Computational Thinking for Work & Play, Fall 2014, Fall 2015

PROFESSIONAL EXPERIENCE

Manager - Technology Initiatives

July 2010 - August 2015

Newcomb College Institute, Tulane University

- Provided strategic leadership for the Collat Media Lab and collaborated with faculty and staff in the development of digital media projects.
- Mentored and trained undergraduate students in the Collat Media Internship Program.

Web Developer

November 2005 - October 2008

Linn Productions

- Developed custom websites and graphics and trained customers in website maintenance.

Internet Specialist

May 2003 - August 2005

Site4Sure.com

- Designed original logos, graphics and websites and managed search engine marketing campaigns.

Instructional Design Technical Assistant

August 2002 - May 2004

Casper College

- Created multimedia classroom materials, tutorials for using WebCT, and updated department website.

PUBLICATIONS & PRESENTATIONS

Papers

Modeling Spatial Auditory Attention: Handling Equiprobable Attended Locations, Cognition and AI for Human Centred Design, Melbourne, Australia, August 2017.

Modeling Bias Reduction Strategies in a Biased Agent, International Joint Conference on Artificial Intelligence, Melbourne, Australia, August 2017.

Modelling auditory spatial attention with soft constraints, 4th International Workshop on Artificial Intelligence and Cognition, New York City, New York, July 17-18, 2016.

A Framework for Developing Multitouch Applications, Midwestern Instruction & Computing Symposium 2010, University of Wisconsin-Eau Claire, Eau Claire, WI, April 16-17, 2010.

A General Purpose Online Survey Generation Tool, Midwest Instruction & Computing Symposium, South Dakota School of Mines & Technology, Rapid City, SD, April 17-18 2009.

Posters

Computational Model of Spatial Auditory Attention in ACT-R, CogSci 2018, Madison, WI, July 2018.

Modeling Decision Making in a Biased Matchmaker Task, International Conference on Cognitive Modeling, Madison, WI, July 2018.

Modeling auditory spatial attention with an AI constraint-based approach, Cognitive Neuroscience Society 2016, New York City, New York, April 2-5, 2016.

AdventureCode: Computational Thinking Through Games, EdMedia 2015, Montreal, Quebec, Canada, June 22-24, 2015.

A Framework for Developing Multitouch Applications to Enhance K-12 Education, Grace Hopper Celebration of Women in Computing 2010, Atlanta, GA, September 28-October 2, 2010.

Presentations and Invited Talks

Computational Models of Attention and Decision Making, Presentation at the ACT-R Summer School, Carnegie Mellon University, Pittsburgh, PA, July 2018.

Machine Learning: An Attempt to Predict Academic Attrition in Naval Air Traffic Control Training, DoD Human Factors Engineering Technical Advisory Group Meeting, May 2017.

Web Development in Prolog, Presentation to New Orleans Functional Programming group, New Orleans, LA, August 4, 2015.

COMMUNITY ENGAGEMENT

Career Development Officer, Tulane Women⁺ in Science & Engineering, January 2017 - present.

Mentor, More Active Girls in Computing, July 2012 - present.

Vice President, New Orleans Women in Technology, September 2013 - September 2017.

Graduate Community-Engaged Fellowship, Tulane University, February 2016 - November 2016.

Adviser, Tulane Women in Technology, January 2013 - August 2016.

Organization Coordinator, GHC14 Open Source Day Committee, May 2014 - October 2014.

Teaching Assistant, Socket To Me Computer Camp for Girls, Summer 2009.

HONORS & AWARDS

2017 Ada Lovelace Woman of the Year Nominee, LookFar.

2017 GHC Scholar, Anita Borg Institute.

2017 CRA-W Grad Cohort Attendee, CRA-W.

2016 CRA-W Grad Cohort Attendee, CRA-W.

2014 Student Organization Adviser of the Year, Crest Awards, Tulane University.

2013 Josephine Louise Newcomb Award, Under the Oaks, Newcomb College Institute.

2012 CASE District III Awards Program, Special Merit Award, World Wide Web & Electronic Communication Division.

2010 Imagine Cup US Finals, 3rd place, Software Design Competition.