

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

RESEARCH INTERESTS

Artificial Intelligence, Human-Machine Interaction, Cognitive Modeling, Cognitive Architectures, Multiagent Systems, Computational Social Choice, Computer Science Education

RESEARCH EXPERIENCE

Research Assistant

DON Pathways Program, Naval Research Lab, P.I.: Bruce Lin

September 2016 - present

Research Assistant

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

August 2015 - present

Collaborative Research Experience for Undergraduates

CRA-W, Adviser: Antonette Logar

August 2009 - May 2010

Undergraduate Research Assistant

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

November 2008 - May 2010

PUBLICATIONS & PRESENTATIONS

Publications in Peer Reviewed Conference Proceedings

Scheuerman, J., Venable, K. B., Anderson, M. T., & Golob, E. J. (2018). Modeling spatial auditory attention in ACT-R: a constraint-based approach. *Postproceedings of the 9th Annual International Conference on Biologically Inspired Cognitive Architectures, BICA 2018, Procedia Computer Science*, 145, 797-804.

Scheuerman, J., Acklin, D., & Brown, N. (2018). Modeling Decision Making in a Biased Matchmaker Task, *Proceedings of the 16th International Conference on Cognitive Modeling*, 132-133.

Scheuerman, J. & Acklin, D. (2017). Modeling Bias Reduction Strategies in a Biased Agent, In *IJCAI* (pp. 5205-5206).

Scheuerman, J. (2015). AdventureCode: Computational Thinking Through Games, In *EdMedia+ Innovate Learning* (pp. 1832-1837). Association for the Advancement of Computing in Education (AACE).

Paper Presentations

Scheuerman, J., Harman, J., Mattei, N., Venable, K. B., (2019). Heuristics in Multi-Winner Approval Voting, *Workshop on Behavioral EC at the 20th ACM Conference on Economics and Computation 2019*, Phoenix, Arizona.

Scheuerman, J., Venable, K. B. Anderson, M.T., Golob, E. J. (2017). Modeling Spatial Auditory Attention: Handling Equiprobable Attended Locations, *Cognition and AI for Human Centred Design*, Melbourne, Australia.

Golob, E. J., Venable, K. B., Anderson, M. T., Benzell, J. A., & **Scheuerman, J.** (2016). Modelling auditory spatial attention with soft constraints, *4th International Workshop on Artificial Intelligence and Cognition*, New York City, New York.

Krage, R. Rebenitsch, R., **Scheuerman, J.**, & Logar, A. (2010). A Framework for Developing Multitouch Applications, *Midwestern Instruction & Computing Symposium 2010*, University of Wisconsin-Eau Claire, Eau Claire, WI.

Chuluunkhuu, A., **Scheuerman, J.**, et. al. (2009). A General Purpose Online Survey Generation Tool, *Midwest Instruction & Computing Symposium*, South Dakota School of Mines & Technology, Rapid City, SD.

Poster Presentations

Scheuerman, J., Acklin, D., & Brown, N. (2018). An ACT-R Model of Biased Decision Making, *Society for Judgement and Decision Making Annual Conference 2018*, New Orleans, LA.

Acklin, D., **Scheuerman, J.**, & Brown, N. (2018). Improving probabilistic decision making: Explicit instructions and internal strategies, *Society for Judgement and Decision Making Annual Conference 2018*, New Orleans, LA.

Scheuerman, J., Venable, K. B. Anderson, M.T., Golob, E. J. (2018). Computational Model of Spatial Auditory Attention in ACT-R, *CogSci 2018*, Madison, WI, July 2018.

Scheuerman, J., Venable, K. B. Anderson, M.T., Golob, E. J. (2016). Modeling auditory spatial attention with an AI constraint-based approach, *Cognitive Neuroscience Society 2016*, New York City, New York.

Scheuerman, J., Rebenitsch, L., & Krage, R. (2010). A Framework for Developing Multitouch Applications to Enhance K-12 Education, *Grace Hopper Celebration of Women in Computing 2010*, Atlanta, GA.

Other Speaking Opportunities

Scheuerman, J. and Howard, J. (2019). Beyond Computer Science: Succeeding as an Interdisciplinary Technologist. Mentoring Circle at Grace Hopper Celebration of Women in Computing.

Scheuerman, J. (2017-2019). Various guest lectures for *Artificial Intelligence* course on topics including Algorithmic Game Theory, Constraint Satisfaction Problems, and Informed Search. Tulane University, New Orleans, LA.

Scheuerman, J. (2018). Computational Models of Attention and Decision Making, Presentation at the *ACT-R Summer School*, Carnegie Mellon University, Pittsburgh, PA.

Scheuerman, J., Brown, N., Smith, D., Trenchard, M. & Myrick, S. (2017). Machine Learning: An Attempt to Predict Academic Attrition in Naval Air Traffic Control Training, *DoD Human Factors Engineering Technical Advisory Group Meeting TAG 71*, Atlantic City, NJ.

Adams, T., Dolan, W., King, S., Huddleston, A., Nelson, J & **Scheuerman, J.**(2015). Volunteering for Your Community and Career. Student Opportunity Lab at Grace Hopper Celebration of Women in Computing.

Scheuerman, J. (2015). Web Development in Prolog, Presentation to *New Orleans Functional Programming Group*, New Orleans, LA.

TEACHING EXPERIENCE

Instructor

Tulane University

- Intro to Computer Science I, Fall 2018

Teaching Assistant

Tulane University

- Intro to Computer Science I, Fall 2015
- Intro to Computer Science II, Spring 2016, Spring 2017
- Intro to Algorithms, Fall 2015
- Software Studio, Fall 2016

Co-Instructor

Tulane University

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

Professional Development

- Completed Ready, Prep, Teach! Teaching Workshop in Spring 2018

PROFESSIONAL EXPERIENCE

Manager of Technology Initiatives

Newcomb College Institute, Tulane University

July 2010 - August 2015

Freelance Web Developer

JLCreations

June 2004 - July 2012

Web Developer

Linn Productions

November 2005 - October 2008

Web Designer

Site4Sure.com

May 2003 - August 2005

HONORS & AWARDS

GHC Scholar, Anita Borg Institute (2019, 2017)

Selected participant, Summer Institute on Bounded Rationality, Max Planck Institute for Human Development (2019)

Silicon Bayou 100 award recognizing Louisiana's most influential people in tech (2019)

Selected participant, Grad Cohort, CRA-W (2019, 2017, and 2016)

Selected Participant, 25th Annual ACT-R Workshop & Summer School, Carnegie Mellon University (2018)

Ada Lovelace Award Nominee for Woman of the Year in NOLATech (2017)

Selected participant, Doctoral Consortium, International Joint Conference on Artificial Intelligence (2017)

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

Josephine Louise Newcomb Award, staff appreciation award at Newcomb College Institute (2013)

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

SERVICE & COMMUNITY ENGAGEMENT

Mentor, Tulane Digital Research Internship Program, Fall 2018 - present

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

Local Coordinator, Women in Machine Learning @ ICML, Spring 2019

Career Development Officer, Tulane Women in Science & Engineering, January 2017 - May 2019

Volunteer, AAAI 2019

Student Representative, Tulane Graduate Council, August 2017 - May 2018

Computer Science Representative, Graduate Studies Student Association, August 2015 - May 2018

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