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 September 2016 - present
DON Pathways Program, Naval Research Lab, P.I.: Bruce Lin

Research Assistant August 2015 - present
Department of Computer Science, Tulane University, Adviser: K. Brent Venable

Collaborative Research Experience for Undergraduates August 2009 - May 2010
CRA-W, Adviser: Antonette Logar

Undergraduate Research Assistant November 2008 - May 2010
South Dakota School of Mines & Technology, Adviser: Antonette Logar

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., 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.

Guest Lectures and Invited Talks

Scheuerman, J. (2019). Informed Search Strategies, Guest lecture for *Artificial Intelligence* course, Tulane University, New Orleans, LA.

Scheuerman, J. (2019). Constraint Satisfaction Problems, Guest lecture for *Artificial Intelligence* course, 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. (2018). Algorithmic Game Theory, Guest lecture for *Artificial Intelligence* course, Tulane University, New Orleans, LA.

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.

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

HONORS & AWARDS

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

2019, 2017, 2016 Grad Cohort, CRA-W

2018 25th Annual ACT-R Workshop & Summer School, Carnegie Mellon University

2017 Ada Lovelace Award for Woman of the Year in NOLATech

2017 Doctoral Consortium, IJCAI 2017

2017 GHC Scholar, Anita Borg Institute

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

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

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

PROFESSIONAL EXPERIENCE

Manager of Technology Initiatives July 2010 - August 2015
Newcomb College Institute, Tulane University

Freelance Web Developer June 2004 - July 2012
JLCreations

Web Developer November 2005 - October 2008
Linn Productions

Web Designer May 2003 - August 2005
Site4Sure.com

SERVICE & COMMUNITY ENGAGEMENT

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

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

Volunteer, AAAI 2019

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

Computer Science Represenatative, 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