Jaelle Scheuerman

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EDUCATION

Ph.D. in Computer Science
Tulane University — August 2015 - May 2020
Dissertation: *Computational Models of Heuristics and Bias in Human Behavior*

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, Preferences, Decision Making, AI-Augmented Learning, Computational Social Choice

RESEARCH EXPERIENCE

Computer Scientist — May 2020 - present
Center for Geospatial Sciences, Naval Research Lab

Research Assistant — September 2016 - May 2020
Center for Geospatial Sciences, Naval Research Lab, P.I.: Dr. Bruce Lin

Research Assistant — August 2015 - May 2020
Department of Computer Science, Tulane University, Adviser: Dr. K. Brent Venable

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

PUBLICATIONS & PRESENTATIONS

Publications in Peer Reviewed Conference Proceedings

Scheuerman, J., Harman, J. L., Mattei, N. and Venable, K. B. (2020). Heuristic Strategies in Uncertain Approval Voting Environments, *Proceedings of the International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2020.*

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.*

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

Scheuerman, J. & Acklin, D. (2017). Modeling Bias Reduction Strategies in a Biased Agent, In *Proceedings of the 2017 International Joint Conference on Artificial Intelligence.*

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

Presentations

Michael, C.J., Acklin, D., **Scheuerman, J.**, (2019). On Interactive Machine Learning and the Potential of Cognitive Feedback, *2nd Workshop on Deep Models and Artificial Intelligence for Defense Applications, Association for the Advancement of Artificial Intelligence Fall Symposium Series.*

Scheuerman, J., Harman, J. L., 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.*

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.*

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.

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.*

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.

Posters

Scheuerman, J., Harman, J. L., Mattei, N. and Venable, K. B. (2019). Heuristics and Voting Behavior in Multi-Winner Approval Voting, *Society for Judgement and Decision Making Annual Conference 2019.*

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

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.*

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

TEACHING EXPERIENCE

Instructor   Fall 2018
Tulane University

· *Intro to Computer Science I*

Teaching Assistant   Fall 2015 - Spring 2017
Tulane University

· *Intro to Computer Science I, Intro to Computer Science II, Intro to Algorithms, Software Studio*
· Guest lectures for *Artificial Intelligence* course (including Algorithmic Game Theory, Constraint Satisfaction Problems, and Informed Search)

Co-Instructor   Fall 2014, Fall 2015
Tulane University

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

PROFESSIONAL EXPERIENCE

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

Web Developer   November 2005 - October 2008
Linn Productions

Web Designer   May 2003 - August 2005
Site4Sure.com

TECHNICAL SKILLS

Data Analysis & Data Science: Comfortable in Python (Numpy, Pandas, Matplotlib, Scikit-learn), basic familiarity with R, MATLAB and SQL

Software Development: Comfortable with web languages (HTML, CSS, & Javascript), basic familiarity with Java, Common Lisp, Ruby, PHP, C++

HONORS & AWARDS

Selected participant, Doctoral Consortium, International Conference on Autonomous Agents and Multiagent Systems (2020)

Selected participant, ACM Future of Computing Academy (2019)

GHC Scholar, Anita Borg Institute (2019, 2017)

Selected participant, Summer Institute on Bounded Rationality, Max Planck Inst. 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, 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

Reviewer, Journal of Cognitive Systems Research

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

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

Mentor, Tulane Digital Research Internship Program, Fall 2018 - Spring 2020

Local Coordinator, Women in Machine Learning Meetup at ICLR, Spring 2019

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

Student Volunteer, AAAI 2019

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

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

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