

# Jaelle Scheuerman

www.linkedin.com/in/jaelle  
jscheuer@tulane.edu

## EDUCATION

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### 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

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Artificial Intelligence, Human-Machine Interaction, Cognitive Models, Cognitive Architectures, Multiagent Systems, Constraint Satisfaction Problems, Computational Social Choice, Computer Science Education

## RESEARCH EXPERIENCE

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### 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

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### 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 Design0*, 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

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### 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

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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

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<b>Manager of Technology Initiatives</b> <i>Newcomb College Institute, Tulane University</i>	July 2010 - August 2015
<b>Freelance Web Developer</b> <i>JLCreations</i>	June 2004 - July 2012
<b>Web Developer</b> <i>Linn Productions</i>	November 2005 - October 2008
<b>Web Designer</b> <i>Site4Sure.com</i>	May 2003 - August 2005

## SERVICE & COMMUNITY ENGAGEMENT

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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