

# Laura M. Schaeffer

Curriculum Vitae

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Georgia Institute of Technology  
School of Psychology  
Atlanta, GA 30332-0170

<http://probsolvevelab.gatech.edu/schaeffer.html>

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## EDUCATION

### Ph.D. in Engineering Psychology

Minor: Industrial/Organizational Psychology

Georgia Institute of Technology

Advisor: Richard Catrambone

Committee: Richard Catrambone (chair), Frank Durso, Jamie Gorman, Anne McLaughlin, Wendy

Newstetter

August 2017 (Expected)

Atlanta, Georgia

### M.S. in Engineering Psychology

Georgia Institute of Technology

Committee: Richard Catrambone (chair), Frank Durso, Wendy Rogers

December 2015

Atlanta, Georgia

### B.A. in Neuroscience

Agnes Scott College

May 2012

Decatur, Georgia

## TEACHING EXPERIENCE

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### Courses

**Co-Instructor**, Applied Experimental Psychology, *Georgia Tech*

Spring 2017

**Instructor**, Engineering Psychology, *Georgia Tech*

Fall 2016

**Instructor**, Engineering Psychology, *Agnes Scott College*

Spring 2015

**Co-Instructor**, Introductory Psychology, *Georgia Tech*

Spring 2015

**Instructor**, Introductory Psychology, *Agnes Scott College*

Fall 2014

**Lab Instructor**, Cognitive Psychology, *Georgia Tech*

Fall 2013, Spring 2015, Fall 2015

**Teaching Assistant**, Engineering Psychology, *Georgia Tech*

Fall 2012, Spring 2016

**Teaching Assistant**, Learning and Memory, *Georgia Tech*

Fall 2014

**Teaching Assistant**, Introductory Psychology, *Georgia Tech*

Fall 2013, Spring 2014

**Teaching Assistant**, Cognitive Psychology, *Georgia Tech*

August 2012 – May 2013

### Guest Lectures

Engineering Psychology

Spring 2016

Learning and Memory

Fall 2014

### Mentorship

**Grand Challenges Group Facilitator**, *Georgia Tech*

Fall 2013-Spring 2014

### Tutoring

**Technology Production Studio**, *Agnes Scott College*

August 2008 – December 2011

**Statistics, Psychology Department**, *Agnes Scott College*

Fall 2010

**English as a Second Language**, *Agnes Scott College*

Fall 2009

## **PUBLICATIONS**

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**Schaeffer, L. M.**, Margulieux, L. E., Chen, D., & Catrambone, R. (2017). Feedback via Educational Technology. In L. Lin & R. Atkinson (Eds.), *Educational Technologies: Challenges, Applications, and Learning Outcomes*.

Gable, T. M., Chen, D.W., Darling, C.M., McGlynn, S.A., Kazi, S., Preusse, K.C., Yoo, A., & **Schaeffer, L. M.**, (July, 2016). From the Winning HFES “Voting System of Tomorrow” Competition Submission: Heuristic-Driven Recommendations for Improving Voting-Related Processes. *Ergonomics in Design: The Quarterly of Human Factors Applications*.

Margulieux, L. E., Chen, D., McDonald, J. D., Bujak, K. R., Gable, T. M., Darling, C. M., **Schaeffer, L. M.**, & Barg-Walkow, L. H. (April, 2016). Online collaboration applications evaluated by ease of use. *Ergonomics in Design: The Quarterly of Human Factors Applications*.

### Conference Proceedings

**Schaeffer, L. M.**, Margulieux, L. E., & Catrambone, R. (2016). Interaction of instructional materials order and subgoal labels on learning in programming. In A. Papafragou, D. Grodner, D. Mirman, & J.C. Trueswell (Eds.), *Proceedings of the 38<sup>th</sup> Annual Conference of the Cognitive Science Society* (pp. 271-276). Austin, TX: Cognitive Science Society.

### Technical Reports

Gable, T. M., McGlynn, S., Chen, D., Preusse, K., Yoo, A., Darling, C., Kazi, S., **Schaeffer, L.**, & Harrington, C. (2015). A comprehensive Webbased solution for future voting: Georgia Tech HFES Student Chapter submission to the HFES “Voting System of Tomorrow” competition (GT-HFES-TR-2015-01). Atlanta: Georgia Institute of Technology, Georgia Tech HFES Student Chapter. Retrieved from <https://smartech.gatech.edu/bitstream/handle/1853/54056/GT-HFES-TR-2015-01-1.pdf>

## **PRESENTATIONS**

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### Colloquia and Talks

**Schaeffer, L. M.** (2016, March). *Feedback via Educational Technology*. Presentation at the Engineering Psychology Colloquium, Georgia Institute of Technology, Atlanta, GA.

**Schaeffer, L. M.** (2015, February). *Instructional Order and Subgoal Labeling*. Presentation at the Engineering Psychology Colloquium, Georgia Institute of Technology, Atlanta, GA.

**Schaeffer, L. M.** (2014, April). *Worked Examples, Procedural Text, and Subgoal Labeling: Instructional Organization and Learning*. Presentation at the Engineering Psychology Colloquium, Georgia Institute of Technology, Atlanta, GA.

### Posters

- Schaeffer, L. M.**, Margulieux, L. E., & Catrambone, R. (2016, August). Interaction of instructional materials order and subgoal labels on learning in programming. Poster presented at the 38<sup>th</sup> Annual Conference of the Cognitive Science Society. Philadelphia, PA.
- Schaeffer, L. M.**, Margulieux, L.E., & Catrambone, R.C. (2016, March). *Subgoal Labeled Instructional Materials: Current Research and Future Directions*. Poster presented at Career, Research, Innovation and Development Conference, Atlanta, GA
- Schaeffer, L. M.**, Margulieux, L.E., & Catrambone, R.C. (2016, February). *Subgoal Labeled Instructional Materials: Current Research and Future Directions*. Poster presented at Georgia Tech STEM Education Research Expo, Atlanta, GA
- Schaeffer, L. M.**, & Catrambone, R.C. (2014, March). *Effects of Instructional Order on Performance*. Poster presented at Georgia Tech Research & Innovation Conference, Atlanta, GA
- Schaeffer, L. M.**, & Catrambone, R.C. (2014, March). *Effects of Instructional Order and Subgoal Labeling on Learning*. Poster presented at Georgia Tech STEM Education Research Expo, Atlanta, GA
- Schaeffer, L. M.** (2013). *Education Instructions: Effect of Order of Instruction Type on Learning*. Presentation at the IPaT Forum Demo Showcase, Georgia Institute of Technology, Atlanta, GA.
- Schaeffer, L. M.** (2013). *Education Instructions: Effect of Order of Instruction Type on Learning*. Presentation at the GVU Fall Research Showcase, Georgia Institute of Technology, Atlanta, GA
- Bujak, K. R., Margulieux, L. E., Chen, D., **Schaeffer, L. M.**, & Hughes, G. C. (2013). *Understanding cognition to design better learning experiences*. Invited presentation at the GVU Digital Media Research Showcase, Georgia Institute of Technology, Atlanta, GA.
- Schaeffer, L. M.**, & Kremer, C. (2011, April). *Effect of Color on Perceived Attractiveness*. Poster presented at Agnes Scott's Spring Annual Research Conference, Decatur, GA

## RESEARCH EXPERIENCE

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- Volunteer Consulting Experience, Scantech** Summer 2016
- Lead team of 6 PhD students to develop and understand existing supply chain flows and volumes of perishable produce through US PoEs across US/Mexico borders, including forecasting volume and product mix. Scope included sales analysis and target prioritization.
- Human Factors and Ergonomics Society Georgia Tech Student Chapter** August 2012 – Present
- Redesigned CDC vaccination schedule for usability
  - Designed “Voting System of Tomorrow” for HFES 2014 competition (1<sup>st</sup> place)
  - Recommended free collaboration web applications after analyzing for usability
- Problem Solving and Educational Technology Lab, Georgia Tech** August 2012 – Present
- Graduate Researcher (PI: Richard Catrambone)
- Georgia Tech Research Institute, Georgia Tech** November 2009 – July 2012
- Research Assistant**
- Tested commercial products using Human Factors methodologies

- Analyzed data for Coca-Cola Freestyle beverage dispenser
- Manufactured gloves developed by lab that simulate the physical limitations of arthritis
- Researched the market's current accessibility features in order to develop a highly accessible copier

## **LEADERSHIP EXPERIENCE**

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Agnes Scott College: Varsity Softball Team	2008- 2012
Elected captain by team	2009-2010, 2011-2012
Inventory lead and money lead of Georgia Tech football concession stands fundraiser	2009-2011
Agnes Scott College: St. Jude's Up Til' Dawn Campaign	2009
Sponsorship chairperson: worked with local businesses and national corporations to sponsor events	
Public relations chairperson: raised campus awareness about St. Jude Children's Research Center and Up Til' Dawn's supportive fundraising efforts	
Agnes Scott College: Scottie Sister	2009 – 2011
Provided guidance and support for two first-year students	

## **BUSINESS EXPERIENCE**

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<b>Volunteer Consulting Experience, Scantech</b>	Summer 2016
▪ Lead team of 6 PhD students to develop and understand existing supply chain flows and volumes of perishable produce through US PoEs across US/Mexico borders, including forecasting volume and product mix. Scope included sales analysis and target prioritization.	
<b>Bridge to Business, Georgia Tech &amp; Agnes Scott</b>	August 2011
▪ 3 week mini MBA program covering business topics such as communications, ethics, financial accounting, marketing, operations management, organization theory, and strategic management	

## **SERVICE AND PROFESSIONAL ACTIVITIES**

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Reviewer for HFES Training TG Best Student Paper Competition	2016
Reviewer for HFES CEDM TG Best Student Paper Competition	2016
Reviewed two chapters for the book: Feedback via Educational Technology	February 2016
Reviewer for HFES Education TG Annual Meeting	2016
Reviewer for HFES CEDM TG Annual Meeting	2016
Engineering Psychology Graduate Student Representative	August 2015-August 2016
Reviewer for HFES CEDM TG Best Student Paper Competition	2015
Lab Manager for Problem Solving and Educational Technology	May 2014-Present
Human Factors and Ergonomics Annual Meeting Student Volunteer	October 2014
Atlanta Science Festival, GT-HFES booth	March 2014, March 2015

Georgia Tech Psychology New Graduate Student Welcome Packet Contributor

Spring 2015

Fernbank Museum's "Science at Hand" Day

November 2012, November 2013

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## HONORS AND AWARDS

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Human Factors and Ergonomics Society *Voting System of Tomorrow*

October 2014

- First place, member of HFES-GT team

Psi Chi, International Academic Honor Society in Psychology

May 2011-Present

Mortar Board

August 2010-May 2011

Letitia Pate Evans Scholarship 4 year award \$60,000

August 2008-May 2012

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## AFFILIATIONS

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Association for Psychological Science

Student Member since 2016

American Society for Engineering Education Georgia Tech Student Chapter

Member since 2013

Human Factors and Ergonomics Society

Student Member since 2013

- Education Technical Group
- Cognitive Engineering and Decision Making Technical Group
- Environmental Design Technical Group

Human Factors and Ergonomics Society Georgia Tech Student Chapter

Member since 2012

- Secretary (2013-2014)
- Webmaster (2014-2015)

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## PSYCHOLOGY GRADUATE COURSEWORK

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### Engineering Psychology:

Displays  
Stressors  
Analysis Techniques  
Controls and Workspace  
Psychomotor & Cognitive Skill  
Educational Technology  
Human Systems Integration

### Quantitative:

Research Design  
Statistical Analysis  
General Linear Models  
Multivariate Analysis  
Item Response Theory

### Psychology:

Biopsychology  
Sensation and Perception  
Cognitive Psychology  
Industrial/Organizational Psychology

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## OTHER VOLUNTEER ACTIVITIES

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Renfroe Middle School Math Tutor, Decatur, GA (one hour weekly)

January-May 2009

Mentored and assisted at the girls softball clinic of Olympic softball player Crystal Bustos September 19, 2009

Mentored and assisted at Oakhurst Park softball clinic February 8, 2009

Hosted softball recruits during their overnight campus visitations September 2008- May 2009