

# Lisa A. Solinger

Curriculum Vitae • August 2015

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Washington University in Saint Louis  
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## EDUCATION

### **Ph.D. in Progress, Psychology (Brain, Behavior, & Cognition)**

Expected in 2021

Washington University in Saint Louis–Saint Louis, MO

First Year Student

Advisor: Ian Dobbins, Ph.D.

### **M.A. Psychology**

December 2010

University of North Carolina Wilmington–Wilmington, NC

*Thesis Title: The Effects of Divided Attention and Prior Knowledge on the Accuracy of Judgments of Learning*

Advisor: Jeffrey P. Toth, Ph.D.

### **B.S. Psychology**

December 2007

College of Charleston–Charleston, SC

## HONORS/AWARDS

University Fellowship, Washington University in St. Louis

August 2015-June 2016

Cognitive, Computational, and Systems Neuroscience Trainee

August 2015-Present

UNC Wilmington New Scholar Award Recipient

August 2008-June 2009

Psychology Graduate Student Association Treasurer

August 2009-July 2010

Psychology Club Vice President

August 2006-December 2007

Student member of Psychology Department Advising Committee

May 2006-December 2007

## PUBLICATIONS

Chua, E., & **Solinger, L.** (2015). Building metamemorial knowledge over time: insights from eye tracking about the bases of feeling-of-knowing and confidence judgments. *Frontiers in Psychology* 6:1206. doi: [10.3389/fpsyg.2015.01206](https://doi.org/10.3389/fpsyg.2015.01206)

Toth, J., Daniels, K., & **Solinger, L.** (2011). What you know can hurt you: Effects of age and prior knowledge on the accuracy of judgments of learning. *Psychology and Aging*, 26(4), 919-931. doi: [10.1037/a0023379](https://doi.org/10.1037/a0023379)

## CONFERENCE PRESENTATIONS

**Solinger, L.** & Chua, E. (2015). Eye movements as an index of feeling-of-knowing. Association for Psychological Science, New York, NY. *Poster presentation.*

**Solinger, L.** & Chua, E. (2015). Encoding and retrieval contributions to memory errors. Cognitive Neuroscience Society, San Francisco, CA. *Poster presentation.*

Gaynor, A., **Solinger, L.**, & Chua, E. (2014). Prefrontal contributions to metamemory monitoring and associative recognition. The City University of New York's Graduate Center Psychology Day Conference, New York, NY. *Poster presentation.*

**Solinger, L.** & Chua, E. (2014). The obligatory effects of memory distortions on eye movements. Eastern Psychological Association, Boston, MA. *Poster presentation.*

Daniels, K., Toth, J., & **Solinger, L.** (2009). The effects of prior knowledge and aging on the accuracy of judgments of learning. Psychonomics, Boston, MA. *Poster presentation.*

## COMPUTER SKILLS

- Matlab
- R
- SPSS
- SAS
- StatView
- GitHub
- XCode
- E-Prime
- PsychoPy
- Python
- HTML
- JavaScript
- MTurk
- LiveCode
- Qualtrics
- SPM
- FSL
- MRICron
- iView X
- EyeLink

## RESEARCH EXPERIENCE

**Research Assistant, Memory and Metacognition Laboratory** September 2013-August 2015  
Department of Psychology, Brooklyn College of the City University of New York  
NIH Grant: "Cognitive and Neural Bases of Memory Confidence and Accuracy"  
Principal Investigator: Elizabeth Chua, Ph.D.

### Research Focus:

- Broadly speaking, explored the cognitive and neural mechanisms that underlie both confidence and accuracy in memory.
- Investigated the role of irrelevant binding, as compared to monitoring failure, in false confident recognition memory.
- Used eyetracking to examine effects of cue fluency and the generation of feeling-of-knowing ratings influence later retrospective confidence judgments.

### Skills and Duties:

- Simultaneously managed data collection for multiple projects including recruiting, screening, scheduling, consenting, and compensating participants.
- Assisted in designing experiments and conducted literature reviews as necessary.
- Analyzed fMRI, eyetracking, tDCS, and behavioral data in Matlab and R.
- Programmed experiments in PsychoPy and independently learned to script complex experiments in Python, including writing customized Python packages allowing for communication between an eyetracker, MRI machine, and behavioral script.
- Aided in creating a productive lab environment including teaching undergraduate and graduate level students how to program experiments and write code for data analyses.

**College Assistant, Emotion and Morality Laboratory** September 2013-June 2015  
Department of Psychology, Brooklyn College of the City University of New York  
Principal Investigator: Hanah Chapman, Ph.D.

**Research Focus:**

- Affect and cognition with an emphasis on understanding the role of disgust in memory, attention and decision making.
- Tested possible hypotheses for the differential effect of disgust and fear in free recall.

**Skills and Duties:**

- Directed a team of 6 undergraduate research assistants, including coordinating data collection and scheduling lab hours.
- Coordinated the physical establishment of the lab by setting up and maintaining a network of computers and serving as the liaison for all bureaucratic purposes.
- Obtained and maintained IRB approval.
- Programmed experiments in E-Prime, Qualtrics and Live Code.
- Trained undergraduate and graduate level students in consenting participants, programming experiments and analyzing data.
- Produced large stimulus sets by collecting over 700 photos, counterbalancing subsets on multiple factors, and coordinating the collection of ratings to normalize the stimuli.

**Masters Research, The Aging and Cognitive Training Laboratory** May 2009-December 2010  
Department of Psychology, University of North Carolina Wilmington  
Principal Investigator: Jeffrey Toth, Ph.D.

**Research Focus:**

- Studied memory, metamemory and attention in the context of dual-process theories of cognition.
- Developed cognitive training tools aimed at improving memory and cognitive control in older adults and patients with traumatic brain injury.
- Investigated the roles of fluency and attention in healthy adults' ability to predict their own memory performance.
- Sought methods for better defining and measuring cognitive control.

**Skills and Duties:**

- Independently programmed experiments in E-Prime, collected data and carried out analyses.
- Contributed to a productive lab environment by training undergraduate students in programming experiments, collecting data and carrying out data analyses.
- Created stimulus sets for use in various projects including lists of to-be-remembered material and stimuli for divided attention protocols.

**Graduate Research Assistant, Cognition and Perception Laboratory** August 2008-May 2009  
Department of Psychology, University of North Carolina Wilmington  
NIH Grant: "Quantifying Stimulus, Response, and Numerical Biases."  
Principal Investigator: Dale Cohen, Ph.D.

**Research Focus:**

- Examined the role of accurate perception, skilled motor movements and optimal decision making in the creation of art.
- Studied the influence of numerical formatting on problem solving and perceived risk perception.
- Analyzed how multidimensional stimuli interact to create perception using mathematical modeling.

### **Skills and Duties:**

- Assisted in designing experiments, facilitated the collection of experimental data, and conducted literature reviews as necessary.
- Managed data collection projects by: obtaining and maintaining IRB approval; preparing human subject protocols and other study materials; recruiting, scheduling and compensating participants.
- Directed a team of undergraduate research assistants.
- Maintained the laboratory's network of computers by updating software, troubleshooting issues, backing up data and ordering supplies.
- Managed the finances of the laboratory.

### **Research Assistant & Data Analyst**

Summer 2005, 2007

Interactive, Inc., Huntington, NY

- Assisted private research and consulting firm in all aspects of conducting research.
- Collected and analyzed quantitative and qualitative data from both web-based and traditional surveys.
- Prepared documents for grant proposals, contract bids and reports.
- Handled and protected confidential and sensitive data with integrity.

### **TEACHING EXPERIENCE**

#### **Graduate Teaching Assistant**

August 2009-May 2010

Department of Psychology, University of North Carolina Wilmington

Course: Experimental Methods

Supervisor/Professor: Robert L. Hakan, Ph.D.

- Assisted in teaching sections of 30-40 undergraduate students on topics such as experimental methodology, scientific writing, basic statistical analyses and APA formatting.
- Prepared materials for research experiments, led laboratory sections, maintained regular office hours, and assisted students in the scientific writing process.
- Evaluated and graded examinations, research projects and papers.

#### **Senior WINGS Leader**

August 2007-January 2008

WINGS for Kids (Providing Social and Emotional Education to Kids), Charleston, SC

- Worked with a team of counselors to plan and implement a learning curriculum designed to develop social and emotional intelligence in underprivileged elementary school children.
- Independently led a group of 12 children through the daily curriculum including community service, homework and skill building activities.
- Recorded data based on my work to be used for the program's research and development.

### **PROFESSIONAL AFFILIATIONS**

- American Psychological Association Student Affiliate, 2007-2010
- American Psychological Association Associate, 2014-Present
- Cognitive Neuroscience Society, 2014-Present
- Eastern Psychological Association, 2013-Present

- International Association for Metacognition, 2008-Present
- Psychonomic Society Student Member, 2008-Present
- Society for Neuroscience, 2015-Present

## REFERENCES

### **Dr. Ian Dobbins, Professor**

Department of Psychology  
Washington University in Saint Louis  
Campus Box 1125  
One Brookings Drive  
Saint Louis, MO 63130  
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### **Dr. Elizabeth Chua, Assistant Professor**

Department of Psychology  
Brooklyn College of the City University of New York  
2900 Bedford Avenue  
Brooklyn, NY 11210  
(718) 951-6032  
echua@brooklyn.cuny.edu

### **Dr. Jeffrey P. Toth, Associate Professor**

Department of Psychology  
The University of North Carolina Wilmington  
601 South College Road  
Wilmington, NC 28403  
(910) 962-3213  
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### **Dr. Hanah Chapman, Assistant Professor**

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### **Dr. Matthew Crump, Assistant Professor**

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