

LARA J. MARTIN

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EDUCATION:

Georgia Institute of Technology, Atlanta, GA

School of Interactive Computing, College of Computing
Ph.D. Human-Centered Computing (*Advisor*: Mark Riedl)

Aug 2015 - Present

Carnegie Mellon University, Pittsburgh, PA

Language Technologies Institute, School of Computer Science
M.S. Language Technologies

Aug 2013 - Aug 2015

Rutgers University, New Brunswick, NJ

School of Arts and Sciences
Double Major: B.S. Computer Science and Linguistics – Honors, Magna Cum Laude

Sept 2009 - May 2013

SELECT WORK EXPERIENCE:

Graduate Research Assistant, Georgia Institute of Technology, Atlanta, GA

Jan 2016 - Present

- Creating a computational improvisational story-generating agent under the guidance of Professor Mark Riedl

Graduate Research Assistant, Carnegie Mellon University, Pittsburgh, PA

Sept 2014 - Aug 2015

- Created a speech-to-speech translation system for UPMC under Professor Alan W. Black
- Worked with non-English-speaking foreign patients who wish to communicate with hospital staff without the expense of a human translator

Graduate Research Assistant, Carnegie Mellon University, Pittsburgh, PA

Sept 2013 - Aug 2014

- Optimized accuracy of emotion classifiers for speech
- Researched improvements in audio summarization using para-linguistics to improve multimedia event detection (MED) and recounting (MER) for TRECVID

Undergraduate Researcher, Rutgers University, Piscataway, NJ

Sept 2012 - Aug 2013

- Worked in an artificial intelligence lab under Professor Matthew Stone
- Designed and created an experiment for a model of uncertainty in spoken English
- Created an interface for the subjects of the experiment using Java and Praat

Intern, Institute for Creative Technologies, University of Southern California

Summer 2011

- Created a chatbot for the Virtual Patient Project using Bruce Wilcox's language Chatscript
- Created authoring tool for Chatscript language using Java

AWARDS:

Lockheed Martin Corporation Scholarship for Grace Hopper, 2013

Phi Beta Kappa Member, 2013

SAS Excellence Award, 2012

Pennapps – Best Mashery Use Award, 2012

Microsoft Imagine Cup – Honorable Mention, 2011

National Society of Collegiate Scholars, 2011-2013

School of Arts and Sciences Honors Program, 2009-2013

Dean's List, 2009-2013

Rutgers University James Dickson Carr Scholarship, 2009-2013

Edward J. Bloustein Distinguished Scholar, 2009-2013

National Honors Society Member, 2007-2009

SKILLS:

Programming Languages: Python, Java, C, Bash, HTML, CSS, Javascript, C++, C#, Praat, PHP, XQuery, XML, MySQL, Visual Basic, x86 Assembly, Scheme, Prolog, Matlab, Chatscript (Wilcox)

Languages: Intermediate Spanish

SELECT PUBLICATIONS:

Lara J. Martin, Brent Harrison, & Mark O. Riedl. "Improvisational Computational Storytelling in Open Worlds." *In Proceedings of Ninth International Conference on Interactive Digital Storytelling (ICIDS 2015) / INT 9*, Los Angeles, California, November 15-18, 2016 ([pdf](#)).

Lara J. Martin, Andrew Wilkinson, Sai Sumanth Miryala, Vivian Robison, & Alan W Black. "Utterance Classification in Speech-to-Speech Translation for Zero-Resource Languages in the Hospital Administration Domain." *In Proceedings of IEEE ASRU Workshop 2015*, Scottsdale, Arizona, December 13-17, 2015 ([pdf](#)).

Lara Martin, Matthew Stone, Florian Metze, & Jack Mostow. "A Methodology for Using Crowdsourced Data to Measure Uncertainty in Natural Speech." *In Proceedings of IEEE Spoken Language Technologies Workshop 2014*, South Lake Tahoe, Nevada, December 7-10, 2014 ([pdf](#)).