Nichola Lubold

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RESEARCH INTERESTS

Developing intelligent, personalized dialogue systems by incorporating adaptation to speech phenomena such as entrainment. Exploring application of adaptive dialogue in collaborative and educational systems with broader implications for human-computer and human-robot interaction.

EDUCATION

Arizona State University, Tempe, AZ
Ph.D. Candidate, Computer Science (GPA 3.9) — Aug 2018 (Expected)

University of Notre Dame, Notre Dame, IN
B.S., Computer Engineering — 2008

APPOINTMENTS AND WORK EXPERIENCE

Research Assistant: Arizona State University, 2Sigma Learning Lab	2014 – Present
Research Intern: Intuit, Data Science Lab	Summer 2016
Research Assistant: Arizona State University, FACT Project	2014
Research Assistant: Arizona State University, NLP Lab	2013 – 2014
Program Manager: GE Capital Retail Bank, Governance	2012 – 2013
Project Manager: GE Capital Retail Bank, Infrastructure	2010 - 2012
Information Technology Leadership Program, GE	2008 - 2010
Research Assistant: University of Notre Dame, Biometrics Lab	2006 – 2008

REFEREED JOURNAL ARTICLES

Stephanie Borrie, **Nichola Lubold**, and Heather Pon-Barry. "Disordered speech disrupts conversational entrainment: a study of acoustic-prosodic entrainment and communicative success in populations with communication challenges." *Frontiers in psychology*, *6*, 2015.

REFEREED CONFERENCE AND WORKSHOP ARTICLES

Nichola Lubold, Erin Walker, Heather Pon-Barry, and Amy Ogan. "Automated Pitch Convergence Improves Learning in a Social, Teachable Robot for Middle School Mathematics." *International Conference on Artificial Intelligence in Education, AIED.* 2018. (25% acceptance rate). (In press).

Ishrat Ahmed, **Nichola Lubold**, and Erin Walker. "ROBIN: Using a Programmable Robot to provide Feedback and Encouragement on Programming Tasks." *International Conference on Artificial Intelligence in Education, AIED.* 2018. (In press).

Nichola Lubold, Erin Walker, Heather Pon-Barry, Yuliana Flores, and Amy Ogan. "Using Iterative Design to Create Efficacy-Building Social Experiences with a Teachable Robot." *Proceedings of International Conference of the Learning Sciences, ICLS.* 2018. (32% acceptance rate). (In press).

Tricia Chaffey, Hyeji Kim, Emilia Nobrega, **Nichola Lubold**, and Heather Pon-Barry. "Dyadic Stance in Natural Language Communication with a Teachable Robot." In *HRI '18 Companion: 2018 ACM/IEEE International Conference on Human-Robot Interaction*, March 2018.

Nichola Lubold. "Building Rapport through Dynamic Models of Acoustic-Prosodic Entrainment." *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems*. ACM, 2017.

Nichola Lubold, Heather Pon-Barry, and Erin Walker. "Perceptions of Social Behavior in a Voice-Adaptative Robotic Learning Companion." *ACM/IEEE International Conference on Human Robot Interaction (HRI)*. 2016. (24.8% acceptance rate).

Nichola Lubold, Heather Pon-Barry, and Erin Walker. "Naturalness and Rapport in a Pitch-Adaptive Learning Companion." In *Automatic Speech Recognition and Understanding (ASRU), 2015 IEEE Workshop.* IEEE. 2015. (47.8 % acceptance rate).

Nichola Lubold, Erin Walker, and Heather Pon-Barry. "Relating Entrainment, Grounding, and Topic of Discussion in Collaborative Learning Dialogues." In *Proceedings of the 11th International Conference on Computer Supported Collaborative Learning*, 2015. (36% acceptance rate).

Nichola Lubold and Heather Pon-Barry. "A Comparison of Acoustic-Prosodic Entrainment in Face-to-Face and Remote Collaborative Learning Dialogues." In *Proceedings of the IEEE Workshop on Spoken Language Technologies*, 2014. (48.6% acceptance rate).

Nichola Lubold and Heather Pon-Barry. "Acoustic-Prosodic Entrainment and Rapport in Collaborative-Learning Dialogues." In *Proceedings of the ICMI Workshop on Multimodal Learning Analytics,* 2014.

Fred Morstatter**, Nichola Lubold**, Heather Pon-Barry, Jürgen Pfeffer, and Huan Liu. "Finding Eyewitness Tweets during Crises." In *Proceedings of ACL Workshop on Language Technology and Computational Social Science*, 2014.

FELLOWSHIPS & HONORS

Finalist, Adobe Research Fellowship	2017
NCWIT Collegiate Award, Honorable Mention	2016
Google Anita Borg Memorial Scholarship	2015
Grace Hopper Celebration Scholar	2015
National Science Foundation Graduate Research Fellowship, Honorable Mention	2015
Best Poster Presentation Award, IEEE Spoken Language Technology Workshop	2014
Dean's Fellowship, Ira A. Fulton Schools of Engineering	2013
4 year fellowship, awarded to 4% of all ASU doctoral students	
Six Sigma GreenBelt, General Electric	2010
Upsilon Pi Epsilon Honor Society, University of Notre Dame	2008
Engineering Honors Program, University of Notre Dame	2008

TEACHING EXPERIENCE

Arizona State University

Engineering Projects in Community Service, Academic Associate	Fall 2015 – Present
The ASU Experience, Lecturer	Fall 2016
Principles of Programming with Java, Lecturer	Fall 2014
Introduction to Natural Language Processing	Fall 2013

COMMUNITY SERVICE

Board member, Xavier College Preparatory Technology Board, 2014 – Present
Co-President, Women in Computer Science Society, 2014 – 2016
Volunteer Teacher, Junior Achievement, 2009 – 2012
Outreach Coordinator, GE Capital ITLP, 2008 – 2009
Reviewer for: NAACL (North American Chapter Association for Computational Linguistics), CHI (Computer-Human Interaction), HRI (Human-Robot Interaction), Speech Prosody, and ICWSM (International AAAI Conference on Weblogs and Social Media)

COMMUNITY MEMBERSHIP

Association for Computational Linguistics, 2014
Institute of Electrical and Electronics Engineers, 2014
Women in Computer Science, ASU, 2013
Graduate Women's Association, ASU, 2013
Association for Computing Machinery, 2013
The Society of Women Engineers, 2013

OTHER ACHIEVEMENTS

ServiceNow Certified System Administrator, 2011
ITIL Foundations V3 (135538), 2011