

JESSE THOMASON

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EDUCATION

- University of Texas at Austin, PhD Computer Science 2013-Expected 2018
- University of Pittsburgh, BS Computer Science; Mathematics 2009-2013

RESEARCH INTERESTS

Natural Language Processing, Semantic Parsing, Language Grounding for Robotics, Human-Robot Interaction, Machine Learning

PUBLICATIONS

Journal Articles

- Piyush Khandelwal, Shiqi Zhang, Jivko Sinapov, Matteo Leonetti, Jesse Thomason, Fangkai Yang, Ilaria Gori, Maxwell Svetlik, Priyanka Khante, Vladimir Lifschitz, J. K. Aggarwal, Raymond Mooney, and Peter Stone. BWIBots: A platform for bridging the gap between AI and human–robot interaction research. *International Journal of Robotics Research (IJRR-17)*.
- Jesse D. Thomason, Kenji Yoshigoe, R. B. Lenin, James M. Bridges, and Srini Ramaswamy. Differentiated service strategies for ad-hoc wireless sensor networks in harsh communication environments. *Springer: Wireless Networks Volume 18, Number 5, 551-564, 2012*.

Conference Proceedings

- Jesse Thomason, Jivko Sinapov, Raymond Mooney, Peter Stone. Guiding Exploratory Behaviors for Multi-Modal Grounding of Linguistic Descriptions. *Proceedings of the 32nd Conference on Artificial Intelligence (AAAI-18)*.
- Wesley Tansey, Jesse Thomason, James Scott. Maximum-Variance Total Variation Denoising for Interpretable Spatial Smoothing. *Proceedings of the 32nd Conference on Artificial Intelligence (AAAI-18)*.
- Rodolfo Corona, Jesse Thomason, and Raymond Mooney. Improving Black-box Speech Recognition using Semantic Parsing. *Proceedings of the 8th International Joint Conference on Natural Language Processing (IJCNLP-17)*.
- Jesse Thomason, Aishwarya Padmakumar, Jivko Sinapov, Justin Hart, Peter Stone, and Raymond J. Mooney. Opportunistic Active Learning for Grounding Natural Language Descriptions. *Proceedings of the 1st Annual Conference on Robot Learning (CoRL-17)*.
- Jesse Thomason and Raymond J. Mooney. Multi-Modal Word Synset Induction. *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI-17)*.
- Aishwarya Padmakumar, Jesse Thomason, Raymond J. Mooney. Integrated Learning of Dialog Strategies and Semantic Parsing. *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics (EACL-17)*.
- Jesse Thomason, Jivko Sinapov, Maxwell Svetlik, Peter Stone, and Raymond Mooney. Learning Multi-Modal Grounded Linguistic Semantics by Playing “I Spy.” *Proceedings of the 25th International Joint Conference on Artificial Intelligence (IJCAI-16)*.

- Jesse Thomason, Shiqi Zhang, Raymond Mooney, and Peter Stone. Learning to Interpret Natural Language Commands through Human-Robot Dialog. *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI-15)*.
- Jesse Thomason, Subhashini Venugopalan, Sergio Guadarrama, Kate Saenko, and Raymond Mooney. Integrating Language and Vision to Generate Natural Language Descriptions of Videos in the Wild. *Proceedings of the 25th International Conference on Computational Linguistics (COLING-14)*.
- Jesse Thomason, Huy Nguyen, and Diane Litman. Prosodic Entrainment and Tutoring Dialogue Success. *Proceedings of the 16th International Conference on Artificial Intelligence in Education (AIED-13)*.
- Jesse Thomason and Diane Litman. Differences in User Responses to a Wizard-of-Oz versus Automated System. *Proceedings of the 2013 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT-13)*.
- Jesse Thomason and Jingtao Wang. Exploring Multi-dimensional Data on Mobile Devices with Single Hand Motion and Orientation Gestures. *Proceedings of the 14th international conference on Human-computer interaction with mobile devices and services companion (MobileHCI-12)*.

Workshop Proceedings

- Wesley Tansey, Jesse Thomason, and James G. Scott. Interpretable Low-Dimensional Regression via Data-Adaptive Smoothing. *Proceedings of the ICML Workshop on Human Interpretability in Machine Learning (WHI-17)*.
- Jesse Thomason, Jivko Sinapov, and Raymond J. Mooney. Guiding Interaction Behaviors for Multi-modal Grounded Language Learning. *Proceedings of the First Workshop on Language Grounding for Robotics (RoboNLP-17)*.

FELLOWSHIPS and AWARDS

- National Science Foundation Graduate Research Fellowship 2015
- Microelectronics and Computer Development (MCD) Fellowship, University of Texas at Austin 2013
- Computer Science Outstanding Undergraduate Student Award, University of Pittsburgh 2013
- Honors College Chancellor's Scholarship, University of Pittsburgh 2009

RESEARCH and INDUSTRY POSITIONS

Google, PhD Intern 2016

- Worked on attaching semantic roles to chunked query constituents.
- Proposed and demonstrated a factor graph method that incorporated pre-processing and frame-based knowledge to label chunks with roles.

Einhorn Media Group 2011-2013

- Maintained and updated multiple commercial software packages distributed by the company.
- Assisted in the development of new software and web tools both for distribution and for local use.

PROFESSIONAL ACTIVITIES

- Program Committee, RSS-18
- Program Committee, ACL-18
- Secondary Reviewer, NIPS-17
- Program Committee, RoboNLP-17
- Secondary Reviewer, IJCAI-17
- Secondary Reviewer, EMNLP-17
- Secondary Reviewer, RSS-17
- Secondary Reviewer, NAACL-16
- Secondary Reviewer, AAMAS-16
- Secondary Reviewer, AAMAS-15