

# David Little

## Contact Information

EECS Department, Northwestern University  
Ford Engineering Design Center, Room 3-211  
2133 Sheridan Road, Evanston, IL, 60208, USA  
+1 (847) 467-4399  
d-little@u.northwestern.edu  
www.david-little.net

## Education

09/06 - now Ph.D. Candidate: Cognitive Systems Division, EECS Department  
Cognitive Science Specialist  
Northwestern University, Evanston, IL

08/02 - 08/06 B.A., Majors: Computer Science and Cognitive Science  
Vassar College, Poughkeepsie, NY

## Fellowships

09/06 - 06/07 Incoming Cognitive Science Fellowship, Northwestern University.

09/09 - 06/10 Advanced Cognitive Science Fellowship, Northwestern University.

06/11 - 06/12 Graduate Fellow for "Reach for the Stars: Computational Models for Teaching and Learning in Physics, Astronomy and Computer Science." (NSF GK-12 program).

## Research Experience

09/06 - now Research Assistant  
Advisor: Bryan Pardo  
EECS Department, Northwestern University, Evanston, IL

06/05 - 08/05 Vassar College Undergraduate Summer Research: Robot Models of Human Category Learning  
Advisor: Ken Livingston  
Vassar College, Poughkeepsie, NY

06/04 - 08/04 Vassar College Undergraduate Summer Research: Algorithms for Hexagonal Metamorphic Robots  
Advisor: Jennifer Walter  
Texas, A&M University, College Station, TX.

## Teaching Experience

Spring, 2005 Lab Assistant - Software Design and Implementation

Fall, 2006 Lab Assistant - Cognitive Science, Perception & Action

Spring, 2006 Lab Assistant - Research Methods in Cognitive Science

Spring, 2007 Teaching Assistant - Introduction to Artificial Intelligence

Spring, 2011 Teaching Assistant - Introduction to Artificial Intelligence

## Service

2007	Conference Reviewer - IEEE International Conference on Acoustics, Speech and Signal Processing, 2008
2007	Conference Reviewer - IEEE International Symposium on Circuits and Systems, 2008.
2009	Journal Reviewer - Computer Music Journal
2009	Conference Reviewer - International Conference on Music Information Retrieval (ISMIR), 2009.
2010	Conference Reviewer - International Conference on Music Information Retrieval (ISMIR), 2010.
2011	Journal Reviewer - IEEE Transactions on Audio, Speech and Language Processing
2011	Conference Reviewer - European Conference on Cognitive Science

## Publications

### Refereed Conference Proceedings

- Little, D, Pardo, B., & Wright, B. A. (2011). A Computational Model of Auditory Perceptual Learning: Predicting Learning Interference Across Multiple Tasks. Proceedings of the 33rd Annual Conference of the Cognitive Science Society. Boston, MA.
- Little, D, & Pardo, B. (2010). Computational Models of Perceptual Learning Across Multiple Auditory Tasks: Modeling Daily Learning Limits as Memory Decay. Proceedings of the 10th International Conference on Cognitive Modeling.
- Little, D, & Pardo, B. (2008). Learning musical instruments from mixtures of audio with weak labels. 9th International Conference on Music Information Retrieval (ISMIR).
- Little, D., Raffensperger, D., & Pardo, B.. (2007). A Query By Humming System that Learns from Experience. 8th International Conference on Music Information Retrieval. Vienna, Austria.
- Little, D, & Walter, J. (2005). Using Hexagonal Metamorphic Robots to Form Temporary Bridges. in Proc. of the IEEE International Conference on Intelligent Robotic Systems (pp. 2652-2657). Edmonton, Alberta, Canada.
- Walter, J., Brooks, M., Little, D, & Amato, N. (2004). Enveloping Multi-Pocket Obstacles with Hexagonal Metamorphic Robots. in Proc. of the IEEE Intl. Conf. on Robotics and Automation (pp. 2204-2209). New Orleans, LA.
- Walter, J., & Little, D. (2004). Bridging Gaps in Traversal Surfaces with Hexagonal Metamorphic Robots. in Proc. of the American Nuclear Society 10th International Conference on Robotics and Remote Systems for Hazardous Environments (pp. 28-31). Gainesville, FL.

### Workshops and Demos

- Little, D, Raffensperger, D, & Pardo, B. (2007). User-specific Training for a Music Search Engine. 4th Joint Workshop on Multimodal Interaction and Related Machine Learning Algorithms (pp. 28-30). Brno, Czech Republic.