

# Joanna Drummond

University of Pittsburgh  
Department of Computer Science  
Sennott Square  
Pittsburgh, PA 15260

Email: [jmd73 <at> cs <dot> pitt <dot> edu](mailto:jmd73@cs.pitt.edu)  
Homepage: <http://www.joannadrummond.com/>

## Education

B.S. Computer Science and Mathematics, University of Pittsburgh, *expected* December 2010.

*Minor:* Theatre Arts.

*Honors:* Dean's List, Fall 2006 to Fall 2009; Dean's Stars List, Spring 2007; Upsilon Pi Epsilon, Member

*Relevant Courses:* Human Language Technologies, Intro to Artificial Intelligence, Advanced Topics in Artificial Intelligence: Speech and Natural Language Processing for Educational Applications (*Graduate Course*), Machine Learning (*Graduate Course*)

## Publications

*In the Zone: Towards Detecting Student Zoning Out using Supervised Machine Learning*, Drummond, J., Litman, D., Proc. of 2010 conference on ITS, pages 306-308.

*Evidence of Misunderstandings in Tutorial Dialogue and their Impact on Learning*, Jordan, P., Litman, D., Lipschultz, M., Drummond, J., Proc. of the 2009 conference on AIED, pages 125–132.

## Awards

**Best Undergraduate Poster**, *University of Pittsburgh Department of Computer Science 10th Annual Computer Science Day*

**DREU Recipient**, *Chosen for Distributed Research Experience for Undergraduates Program, (Organized by CRA-W)*

## Employment

**Research Assistant, DREU Program**, Information Sciences Institute, University of Southern California, Dr. Jihie Kim, June 2010 to August 2010.

*Annotated and analyzed student forum data for reply-to relationships*

**Research Assistant**, University of Pittsburgh Department of Computer Science, Dr. Diane Litman, April 2008 to Present.

*Designed feature-sets used to model student disengagement and zoning out in spoken systems, then built models using standard supervised machine learning techniques.*

*Designed feature-sets used to model student incorrect answers in a dialogue with an intelligent spoken tutoring system.*

*Annotated dialogues from an intelligent spoken tutoring system for student incorrectness categories.*

**Teaching Assistant**, University of Pittsburgh Department of Mathematics, September 2007 to April 2008.

*Taught College Algebra Recitation, held office hours, graded homework.*

**Tutor**, University of Pittsburgh Department of Mathematic, October 2006 to April 2007.

*Individual and Group Tutor, Subjects: College Algebra through Calculus III.*