

TEACHING
EXPERIENCE

Graduate Teaching Assistant *Aug 2010 to Dec 2010*
to Jeff Hollingsworth, University of Maryland College Park, Computer Science

- Graded programming projects/exams for course in high-performance computing.
- Tested and wrote instructions for programming projects for the course.
- Fielded student questions via email and during office hours.

Graduate Teaching Assistant *Aug 2010 to Dec 2010*
to James A. Reggia, University of Maryland College Park, Computer Science

- Graded homework, quizzes, and exams for intro artificial intelligence course.
- Interacted with students via email and during office hours.

Graduate Teaching Assistant *Aug 2006 to Dec 2006*
to Fawzi Emad, University of Maryland College Park, Computer Science

- Led Honors discussion of an introductory Java programming course, twice weekly.
- Graded homework, quizzes, projects, and exams.
- Solved student problems during office hours.

Private Tutor *May 2005 to Present*
for several students from high school, college, and graduate school

- Covered topics spanning most of an undergraduate computer science curriculum.
- Languages of instruction include Java, Scheme, and Python.

PROFESSIONAL
EXPERIENCE

Systems Engineer *May 2005 to May 2006*
for Rockwell Collins, Cedar Rapids, IA

- Designed flight management and navigation systems for military aircraft.
- Developed and executed test suites to verify correctness/robustness of systems.
- Increased office efficiency by automating common or repetitive tasks.

Summer Engineering Project Intern *May 2004 to Aug 2004*
for Rockwell Collins, Cedar Rapids, IA

- Wrote requirements for a comprehensive Eclipse plug-in to automate peer review.
- Designed and implemented the plug-in with a team of other interns.
- Gained experience with relational databases, CVS, and Eclipse development.

PUBLICATIONS

- D. Monner (2011). *A Neurocomputational Model of Grounded Language Comprehension and Production at the Sentence Level*. Ph.D. Dissertation, University of Maryland, College Park, MD.
- D. Monner and J.A. Reggia. Systematicity and emergent symbol systems in recurrent neural networks. Submitted to *Cognition*.
- D. Monner, K. Vatz, G. Morini, S. Hwang, and R. DeKeyser. A neural network model of the effects of entrenchment and memory development on grammatical gender learning. Submitted to *Bilingualism: Language and Cognition*.
- D. Monner and J.A. Reggia (2011). Towards a biologically inspired question-answering neural architecture. In *Proceedings of BICA*. Amsterdam: IOS Press.
- D. Monner and J.A. Reggia (2011). Systematically grounding language through vision in a deep, recurrent neural network. In *Proceedings of AGI*. Springer.
- D. Monner and J.A. Reggia (in press). A generalized LSTM-like training algorithm for second-order recurrent neural networks. *Neural Networks*.
- D. Monner and J.A. Reggia (2009). An unsupervised learning method for representing simple sentences. In *Proceedings of IJCNN*.
- A. Bender, R. Sherwood, D. Monner, N. Goergen, N. Spring, and B. Bhattacharjee (2009). Fighting spam with the NeighborhoodWatch DHT. In *Proceedings of INFOCOM*.
- D. Monner and J.A. Reggia (2007). An external tabletop environment for an interactive brain model. CS-TR-4883/UMIACS-TR-2007-41, Dept. of Computer Science, University of Maryland College Park, 2007.

PRESENTATIONS

- D. Monner (2011). Systematically grounding language through vision in a deep, recurrent neural network. Talk presented at BICA, Arlington, VA.
- D. Monner (2011). Towards a biologically inspired question-answering neural architecture. Talk presented at AGI, Mountain View, CA.
- D. Monner (2010). Using neural network models to separate maturational effects from crosslinguistic interference in L2 gender acquisition. Talk presented at SLRF, College Park, MD.
- D. Monner (2009). An unsupervised learning method for representing simple sentences. Poster presented at IJCNN, 2009, Atlanta, GA.

- INVOLVEMENT President, Computer Science Graduate Student Executive Council, 2009-2011
Member, IGERT Lunch Talks/Recruitment/Social Events Committee, 2010-2011
Member, IGERT Winter Storm Planning Committee, 2009-2011
Member, IGERT Winter Storm Assessment Committee, 2009
- AWARDS Fellowship/traineeship with NSF IGERT program in *Computational and Biological Foundations of Language Diversity*, 2008-2010
University of Maryland Computer Science Block Fellowship, 2006-2008
Allied Insurance Scholarship, 2005
Arthur Collins Scholarship, 2003
University of Iowa Presidential Scholarship, 2001-2005
National Merit Scholarship, 2001
- REFERENCES **James A. Reggia**
Professor of Computer Science, University of Maryland College Park
Relationship: Ph.D. Advisor, 5+ years
Email: reggia@cs.umd.edu / Phone: (301) 405-2686
- William Rand**
Professor of Marketing & Computer Science, University of Maryland College Park
Relationship: Research Project Leader, 1 year
Email: wrand@umd.edu / Phone: (301) 405-7229
- Robert DeKeyser**
Professor of Second Language Acquisition, University of Maryland College Park
Relationship: Interdisciplinary Research Collaborator, 2+ years
Email: rdk@umd.edu / Phone: (301) 405-4030