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3427 Tulane Apt 32, Hyattsville, MD 20783 / (301) 586-2495  
[dmonner@cs.umd.edu](mailto:dmonner@cs.umd.edu) / <http://www.cs.umd.edu/~dmonner/>

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## Education:

Aug 2006      **The University of Maryland**, College Park, MD  
⇒ Present      Pursuing Ph.D. in Computer Science.  
Aug 2001      **The University of Iowa**, Iowa City, IA  
⇒ May 2005      B.S. in Computer Science with Highest Distinction.  
                         B.S. in Mathematics with Highest Distinction.  
                         Honors Commendation for Honors coursework, including research projects (see below).  
                         GRE Scores: 800 Math, 800 Verbal, 5.0 Writing

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## Research Experience:

Jan 2007      **Graduate Research Assistant** to Prof. James Reggia, University of Maryland College Park Computer Science  
⇒ Present      

- Current work involves neural networks, brain modeling, and language processing.

Aug 2003      **Undergraduate Scholar Assistant** in University of Iowa High Energy Physics Lab  
⇒ May 2005      

- Designed and programmed software to simulate physics interactions in particle detectors.
- Performed quality-assurance tests on equipment to be used in the CMS particle detector at the LHC.

Aug 2004      **Honors Research Assistant** to Prof. Cesare Tinelli, University of Iowa Computer Science  
⇒ Dec 2004      

- Learned about the propositional satisfiability problem and the DPLL algorithm.
- Designed and implemented an XOR-solving plug-in for the SAT-solver DPLL(T).
- Evaluated my work statistically though extensive performance testing and analysis.

Jan 2003      **Honors Research Assistant** to Prof. Sriram Pemmaraju, University of Iowa Computer Science  
⇒ May 2003      

- Learned about functional programming, Mathematica, and the field of Graph Theory.
- Re-designed and implemented an algorithm for computing graph isomorphism.
- Extensively tested the new algorithm to determine strengths and weaknesses.

## Teaching Experience:

Aug 2006      **Graduate Teaching Assistant** to Prof. Fawzi Emad, University of Maryland College Park Computer Science  
⇒ Jan 2007      

- Led an Honors discussion of CMSC131, the introductory Java programming course, twice weekly.
- Graded homework and exams, and solved student problems during office hours.

May 2005      **Private Tutor**  
⇒ Present      

- Worked with several students from high school, college, and graduate school.
- Topics range from basic programming to computer graphics to data structures.

## Professional Experience:

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

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

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

- Created requirements for a comprehensive Eclipse plug-in to automate peer review.
- Designed and implemented the plug-in to be easy-to-use and completely extensible.
- Gained experience with relational databases, CVS, Eclipse, and plug-in development.

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## Publications:

- D. Monner and J.A. Reggia, "An unsupervised learning method for representing simple sentences," to appear in the proceedings of IJCNN, 2009.
- A. Bender, R. Sherwood, D. Monner, N. Goergen, N. Spring, and B. Bhattacharjee, "Fighting spam with the NeighborhoodWatch DHT," to appear in the proceedings of INFOCOM, 2009.
- D. Monner and J.A. Reggia, 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.

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**Awards:**

NSF Language Science IGERT Fellowship, 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

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