Derek Monner, Ph.D. **Résumé**

CONTACT
INFORMATION

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SKILLSET

Specialties: Machine learning; neural networks; natural language processing; time-series prediction; data structure and algorithm design
Languages: Java, Python (expert); Scala, C/C++ (proficient); many others
Technologies: Matlab, R, MySQL, Git, Eclipse, LaTeX, more
OS: Linux, Mac OS X (expert); Windows variants (proficient)

EDUCATION

The University of Maryland, College Park, MD
Ph.D. in Computer Science, GPA 4.0, November 2011
M.S. in Computer Science, GPA 4.0, May 2009

The University of Iowa, Iowa City, IA
B.S. in Computer Science, *Summa Cum Laude*, May 2005
B.S. in Mathematics, *Summa Cum Laude*, May 2005

SELECTED
RESEARCH
EXPERIENCE

Postdoctoral Research Fellow / January 2012 to Present
University of Maryland College Park, Computer Science
– Designed and tested a new neural network method for collective classification.
– Developed a neural network method for inference in relational databases.
– Advanced a theory of symbolic computation arising in distributed neural systems.

Graduate Research Fellow / August 2008 to August 2010
in Language Diversity IGERT Program, University of Maryland College Park
– Led an interdisciplinary research project on age effects in second languages.
– Processed entire contents of Wikipedia in two languages to form a dataset.
– Designed a neural network model of bilingual acquisition of grammatical gender.

Graduate Research Assistant / January 2007 to December 2011
to James A. Reggia & Others, University of Maryland College Park
– Derived the LSTM-g learning rule for second-order recurrent neural networks.
– Developed neural networks to understand and answer questions in English.
– Collected and used large social network datasets to predict music album sales.

SELECTED
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 August 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.