

THOMAS M DUBOIS

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Education

- **University of Maryland**—College Park, MD
Computer Science Ph.D program since 2005
 - Ph.D. Program researching stochastic optimization problems over large scale networks
 - Advised by Professor Aravind Srinivasan
 - www.cs.umd.edu/~tdubois
 - Teaching Assistant experience in several courses, including graduate level
 - M.S. Completed in Spring 2008
- **Carnegie Mellon University**—Pittsburgh, PA
Bachelor of Science in Computer Science, 2003
 - 3.87 GPA, Graduated with Honors
 - Researcher in dialog systems
 - Six semesters of teaching assistant experience in several areas

Work Experience

- **NeoLinear, Inc/Cadence Design Systems**—Pittsburgh, PA
Software Engineer: June, 2003 - September 2007
 - Large scale software development across multiple sites using C, C++, TCL, perl, matlab, scheme, QT
- **Jumpstart Wireless**—Boca Raton, FL
Software Engineer Intern: June - August, December 2002
 - Web application architecting, prototyping and development using JSP with an ORACLE back end

Skills

- Theoretical Algorithm Design and System Analysis
- Software Engineering
- **Computer Languages:**
 - Proficient in C, C++, HTML, Java, \LaTeX , Perl, PHP, UNIX Shells, Matlab, SQL, etc.

Research Interests and Professional Activities

- **Several papers are in progress**
 - Edge Percolation on Power Law Networks
 - Viral Quarantine on a Budget
- Reviewed for the Journal: Mathematical Biosciences and Engineering, 2008

- Teaching CMSC 451: Design and Analysis of Computer Algorithms, summer 2008

Publications

- Key Exchange with Cards: Generating Extra Bits in Expectation, available from the University of Maryland Department of Computer Science Scholarly Paper Archive
- XMT-GPU: A PRAM Architecture for Graphics Computation, will appear in THE 37th INTERNATIONAL CONFERENCE ON PARALLEL PROCESSING
- DuBois, T.M.; Rudnicky, A.I., "An open concept metric for assessing dialog system complexity," Automatic Speech Recognition and Understanding, 2001. ASRU '01. IEEE Workshop on, pp. 264-267, 2001