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EDUCATION

Ph. D. in Computer Science, The University of Maryland at College Park (UMCP), August 1995

Thesis: Constraint-Based Array Dependence Analysis

Advisor: William Pugh

Master of Science, Computer Science, UMCP, December 1993

B.S.E., Electrical Engineering and Computer Science, Princeton University, June 1985

Independent Project: Changsha: A Chinese Character Recognition and Text Processing System

Advisor: David Dobkin

APPOINTMENTS

7/02-present **Associate Professor of Computer Science**, Haverford College

9/95-6/02 **Assistant Professor of Computer Science**, Haverford College

1/91-8/95 **Research Assistant, Omega Project**, Department of Computer Science, UMCP

9/90-1/91 **Teaching Assistant, CMSC 330**, Department of Computer Science, UMCP

7/85-7/90 **Instructor**, AT&T Corporate Education Center, Bell Labs Systems Training Center

SELECTED PUBLICATIONS

David Wonnacott. Unifying the Applied CS Curriculum around a Simplified Processor Architecture. In *Consortium for Computing Sciences in Colleges (CCSC) 22nd Annual Eastern Conference*, October 2006. (Architecture specification available at <http://www.lulu.com/content/693869>.)

Chen Fu, Ana Milanova, Barbara G. Ryder and David Wonnacott. Robustness Testing of Java Server Applications. *IEEE Trans. Software Eng.*, April 2005.

John P. Dougherty and David Wonnacott. Use and Assessment of a Rigorous Approach to CS1. In *Technical Symposium on Computer Science Education (SIGCSE)*, February 2005. (Current course notes available at <http://www.lulu.com/content/1094615>.)

David Wonnacott. Achieving Scalable Locality with Time Skewing. *International Journal of Parallel Programming*, June 2002.

Robert Seater and David Wonnacott. Polynomial Time Array Dataflow Analysis. In *14th International Workshop on Languages and Compilers for Parallel Computing*, August 2001.

David Wonnacott. Using Time Skewing to Eliminate Idle Time due to Memory Bandwidth and Network Limitations. In *2000 International Parallel and Distributed Processing Symp.*, May 2000.

William Pugh and David Wonnacott. Constraint-based Array Dependence Analysis. *ACM Transactions on Programming Languages and Systems*, May 1998.

Wayne Kelly, Vadim Maslov, William Pugh, Evan Rosser, Tatiana Shpeisman and David Wonnacott, *The Omega Library and Omega Calculator (tools for constraint manipulation)*, Department of Computer Science, The University of Maryland. See <http://www.cs.umd.edu/projects/omega/> for documentation and ftp instructions.

William Pugh and David Wonnacott. Eliminating False Data Dependences using the Omega Test. In *Proceedings of the ACM SIGPLAN'92 Conference on Programming Language Design and Implementation (PLDI)*, June 1992.