

CURRICULUM VITAE

Jeffrey A. Ward
Associate Professor
Department of Computer Science
College of Informatics
Northern Kentucky University
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EDUCATION

Ph.D., Computer and Information Science, The Ohio State University,
August 2004

- Dissertation title: "Answer Set Programming with Clause Learning"

Master of Science, Computer and Information Science, The Ohio State
University, December 1988

Master of Science, Mathematics, The Ohio State University, December 1987

Bachelor of Science, Mathematics, Northern Kentucky University, May 1984

Bachelor of Arts, Philosophy, Northern Kentucky University, May 1984

ACADEMIC EXPERIENCE

Interim Chair, Department of Computer Science,
Northern Kentucky University, Highland Heights, KY
July 2011 to present

Associate Professor, Northern Kentucky University
August 2010 to present

Assistant Professor, Northern Kentucky University
August 2004 to July 2010

Graduate Research Assistant, University of Cincinnati, Cincinnati, OH
June 1999 to June 2002

Assistant Professor, College of Mount St. Joseph, Cincinnati, OH
January 1994 to May 1996

Graduate Teaching and Research Associate, The Ohio State University,
Columbus, OH, September 1985 to December 1993

COURSES TAUGHT (2004 – present)

CEP 300 Cooperative Education Experience

CIT 140 Introduction to Computer Information Technology

CIT 370 System Administration

CIT 500 Fundamentals of Information Technology

CIT 496 Computer Information Technology Senior Practicum

INF 260 Object-Oriented Programming I

CSC 360 Object-Oriented Programming II

CSC 364 Data Structures and Algorithms

CSC 402/502 Advanced Programming Methods

CSC 425/525 Artificial Intelligence

CSC 464/564 Design and Analysis of Algorithms

CSC 685 Logic and Computation

INDUSTRY EXPERIENCE

Game Programmer, PyroTechnix, Inc., Cincinnati, OH
May 1996 to February 1999

PUBLICATIONS

R. Douglas Chatham, Maureen Doyle, Robert J. Jeffers, Walter A. Kusters, R. Duane Skaggs, and Jeffrey Ward. Centrosymmetric Solutions to Chessboard Separation Problems, Bulletin of the Institute of Combinatorics and its Applications, Vol 65, May 2012, pp 6-26.

R. Douglas Chatham, Maureen Doyle, John J. Miller, Amber M. Rogers, R. Duane Skaggs, Jeffrey A. Ward. Algorithm Performance for Chessboard Separation Problems. Journal of Combinatorial Mathematics and Combinatorial Computing, Vol 70, August 2009.

R. Kenneth Skinner and Jeffrey Ward. Applied Valuation of Demand Response Under Uncertainty: Combining Supply-Side Methods to Value Equivalent Demand-Side Resources. Proceedings of the International Association of Energy Economists (IAEE) 32nd International Conference, San Francisco, CA, June 2009.

Kenneth Skinner, Jeff Ward, Bruce Sailors. The Option Value of Demand Response: Using Financial Engineering Methods to Value Customer Participation Limits. Proceedings of the Association of Energy Service Provider's 19th National Energy Services Conference & Expo, San Diego, CA, January 2009.

Jeffrey Ward and John S. Schlipf. Answer Set Programming with Clause Learning. Proceedings of Logic Programming and Nonmonotonic Reasoning 7 (LPNMR-7), Ft. Lauderdale, FL, 2004.

John Franco, Michal Kouril, John Schlipf, Jeffrey Ward, Sean Weaver, Michael Dransfield, and Mark Vanfleet. SBSAT: A State-based, BDD-Based, Satisfiability Solver. Theory and Applications of Satisfiability Testing, 6th International Conference, SAT 2003, Santa Margherita Ligure, Italy, 2003.

Wolfgang W. Kuechlin and Jeffrey A. Ward. Experiments with Virtual C-Threads. Proceedings of the Fourth IEEE Symposium on Parallel and Distributed Processing, Ft. Worth, TX, 1991.

REFEREED CONFERENCE PRESENTATIONS (since August 2004)

Irreversible Optimization under Uncertainty Applied to Optimal Natural Gas Storage. Institute for Operations Research and the Management Sciences (INFORMS) Western Regional Conference, Tempe, AZ, April 2009.

The Option Value of Demand Response: Using Financial Engineering Methods to Value Customer Participation Limits. Association of Energy Service Provider's 19th National Energy Services Conference & Expo, San Diego, CA, January 2009. (co-presented with R. Kenneth Skinner)

GRANTS

Michael Lively, Hongmei Wang, and Jeff Ward (PI). Electrical Load 3-D Display and Animation. Funded by Duke Energy, December 2007 to December 2008, \$46,984.

TRAINING ATTENDANCE

ESRI ArcEngine training, sponsored by Duke Energy. Cincinnati, OH.
(June 5-7, 2007)

GEANT4 training at the Stanford Linear Accelerator Center in Palo Alto, CA.
(March 7-10, 2006)

DEPARTMENT SERVICE

GIS Faculty Search Committee (Autumn 2006 – Spring 2007)
Scholarship Committee (Spring 2006 – Spring 2010)
Master of Science in Computer Science Committee (Autumn 2006 – present)
INF 260 Committee (November – December 2006)
INF 260L Laboratory Manual maintenance (Spring 2006 – Spring 2008)

COLLEGE SERVICE

Media Informatics Program Committee (Autumn 2005 – Spring 2006)

UNIVERSITY SERVICE

NKU Faculty Senate (Spring 2008 – Spring 2010)
Faculty Senate Budget Committee (Autumn 2005 – Spring 2010)
Learning Systems Advisory Committee (Spring 2006 – Spring 2007)

OUTREACH

Served as NKU liaison to the CINSAM Computer Science High School Teachers Alliance (Autumn 2005 – Spring 2008)

Participated in a Southern Regional Education Board (SREB) workshop for developing a high school informatics curriculum. Louisville, KY. (October 26-27, 2010)

Made on-site visits to approximately 40 different local companies, as instructor for CEP 300 “Co-operative Education Experience” and CIT 496 “Senior Practicum”. (Summer 2007 – Summer 2009 and Spring 2011)

Taught summer workshops on Computer Game Programming with Java to local high school students (co-taught with Prof. Richard Fox, 2005 – 2007)