

Christopher Wilt

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Professional Experience

- Plimpton and Hills, Chief Technology Officer 2014-present
Design and implement an enterprise resource planning software suite to manage inventory
- University of New Hampshire, Instructor 2013-2014
Teaching classes on machine architecture and assembly language, professional ethics and communication, and Visual Basic.
- University of New Hampshire, Graduate Assistant 2008-2013
Research in heuristic search, focusing on unbounded suboptimal search and predicting algorithm performance.
- Kiva Systems, Research Intern 2012
Developed a novel heuristic search algorithm that reduced the amount of work being done in the path planning subsystem by a factor of 3.5
Developed a framework and algorithms for multiagent path planning research
- Mathematica Policy Research, Program Analyst 2006-2008
Develop specifications for software designed to measure the efficacy of U.S. Department of Labor programs as well as independent verification and validation of software packages produced to meet the specifications.
Developed new automated testing methodology that produced more accurate results in less time than existing methods, allowing tests to be dynamically updated.

Education

- Ph.D. Computer Science, University of New Hampshire 2014
Dissertation entitled *Steps Towards a Science of Heuristic Search*.
- M.S. Computer Science, University of New Hampshire 2012
- A.B. Mathematics/Anthropology double major, Dartmouth College 2006
Departmental Honors for thesis *A Critical History of the Race-IQ Controversy*.

Refereed Publications

“Speedy versus Greedy Search”

Christopher Wilt and Wheeler Ruml in *Proceedings of the Seventh Symposium on Combinatorial Search (SoCS-14)* 2014.

Awarded Best Student Paper

“Spatially Distributed Multiagent Path Planning”

Christopher Wilt and Adi Botea in *Proceedings of the Twenty-fourth International Conference on Automated Planning and Scheduling (ICAPS-14)* 2014

“A Robust Bidirectional Search Using Heuristic Improvement”

Christopher Wilt, Wheeler Ruml in *Twenty-Seventh Association for the Advancement of Artificial Intelligence Conference (AAAI-13)* 2013.

“When does Weighted A* Fail?”

Christopher Wilt and Wheeler Ruml in *Proceedings of the Fifth Symposium on Combinatorial Search (SoCS-12)* 2012.

“Integrating Vehicle Routing and Motion Planning”

Scott Kiesel, Ethan Burns, Christopher Wilt and Wheeler Ruml in *Proceedings of the Twenty-second International Conference on Automated Planning and Scheduling (ICAPS-12)* 2012

“Cost-Based Heuristic Search is Sensitive to the Ratio of Operator Costs”

Christopher Wilt and Wheeler Ruml in *Proceedings of the Fourth Symposium on Combinatorial Search (SoCS-11)* 2011.

“A Comparison of Greedy Search Algorithms”

Christopher Wilt, Jordan Thayer and Wheeler Ruml in *Proceedings of the Third Symposium on Combinatorial Search (SoCS-10)* 2010.

Other Publications

“Selecting a Greedy Search Algorithm”

Christopher Wilt, Jordan Thayer and Wheeler Ruml. University of New Hampshire Technical Report 10-07. 2011.

Honors

2010 Richard Lyczak Teaching Award for best Teaching Assistant in Department of Computer Science

2014 SoCS Best Student Paper for “Speedy versus Greedy Search”

Teaching Experience

University of New Hampshire

2008-present

Instructor for Professional Ethics and Communication in Computer Science

Spring 2014

Instructor for Introduction to Applications Programming with Visual Basic

Spring 2014

Instructor for Assembly Language Programming and Machine Organization

Fall 2013

Teaching Assistant for Algorithms

Fall 2012

Teaching Assistant for Data Structures

Fall 2011

Teaching Assistant for Introduction to Artificial Intelligence	Spring 2011
Teaching Assistant for Weaving the Web	Fall 2008 - Spring 2010
Dartmouth College	2004-2006
Tutor for Calculus, Chemistry, and Physics	2004-2006
Introduction to Mathematics and Social Sciences	Fall 2005
Genetics	Winter 2005

Skills

Foreign Languages

French

Programming Languages

Java, C/C++, Objective Caml, Python

Applications

Microsoft Excel/ Access, Various SQL servers

Environments

Linux, OSX, Windows

Personal

Eagle Scout

2002

United States Citizen.