

CURRICULUM VITAE

THOMAS E. ALLEN

<http://www.cs.uky.edu/~teal223/>

EDUCATION

- 2016 (expected) Ph.D., Computer Science
University of Kentucky
- 1991 B.S., Information and Computer Science
Georgia Institute of Technology

ACADEMIC EXPERIENCE

- 2012 – present Research Assistant to Judy Goldsmith
Project: Learning Preferences by Asking
- 2011 – 2015 Teaching Assistant, Computer Science, University of Kentucky
Courses: Taught independently Artificial Intelligence (CS 463G)
(Spring 2014) and Intro to Computer Science for Engineers (CS 221)
(Summer 2012); served as T.A. for CS 221 three other semesters and
as T.A. for Intro to Software Engineering (CS 216) in Spring 2015

TEACHING INTERESTS

Prefer to teach courses such as: Artificial Intelligence, Machine Learning, Algorithms, Data Structures, Programming (all levels), Programming Languages, Ethics in Computer Science. Can also teach: Theory of Computing, Databases, Compilers, Operating Systems, Discrete Math.

RESEARCH INTERESTS

Computational Preferences (Compact Formalisms, Elicitation, Aggregation), Assistive Technologies and Smart Environments, Ethics in Artificial Intelligence, Machine Learning, Decision Support Systems, Social Networks, Constraint Satisfaction Programs

ACADEMIC HONORS AND AWARDS

- 2015 – 2016 Graduate School Academic Year Fellowship
- 2014 Verizon Fellowship (Fall Semester)
- 2013 – 2014 Graduate School Academic Year Fellowship
- 2012 Thaddeus B. Curtz Memorial Scholarship Award

PAPERS

Invited Paper

Thomas E. Allen. CP-nets with Indifference. In *Proceedings of the 51st Annual Allerton Conference on Communication, Control, and Computing*, IEEE, 2013.

Refereed Conference Proceedings

Thomas E. Allen, Judy Goldsmith, Hayden Elizabeth Justice, Nicholas Mattei, Kayla Raines. Generating CP-nets Uniformly at Random. In *Proceedings of the Thirtieth AAAI Conference on Artificial Intelligence (AAAI-16)*. (To appear.) [26% acceptance rate]

Thomas E. Allen, Muye Chen, Judy Goldsmith, Nicholas Mattei, Anna Popova, Michel Regenwetter, Francesca Rossi, Christopher Zwillig. Beyond Theory and Data in Preference Modeling: Bringing Humans into the Loop. In *Proceedings of the Fourth International Conference on Algorithmic Decision Theory (ADT 2015)*, Lecture Notes in Artificial Intelligence. Springer, 2015. [45% acceptance rate]

Joshua T. Guerin, Thomas E. Allen, and Judy Goldsmith. Learning CP-net Preferences Online from User Queries. In *Proceedings of the Third International Conference on Algorithmic Decision Theory (ADT 2013)*, Lecture Notes in Artificial Intelligence. Springer, 2013. [46% acceptance rate]

Refereed Workshops

Thomas E. Allen. I Prefer to Eat ... *The AAAI-15 Workshop on Artificial Intelligence Applied to Assistive Technologies and Smart Environments (ATSE 2015)*. [46% acceptance rate]

Thomas E. Allen, Judy Goldsmith, Nicholas Mattei. Counting, Ranking, and Randomly Generating CP-nets. *AAAI Multidisciplinary Workshop on Advances in Preference Handling (MPREF 2014)*.

Other Refereed Papers

Thomas E. Allen, Judy Goldsmith, Nahom Muluneh, Andrew A. Ward. Adventures with Prolog: Entering the Dungeon Lord's Lair. Example programming assignment. In *Proceedings of the Sixth Symposium on Educational Advances in Artificial Intelligence (EAAI-16)*.

Thomas E. Allen. CP-Nets: From Theory to Practice. Doctoral Consortium. *Fourth International Conference on Algorithmic Decision Theory (ADT 2015)*, 555–560, Lecture Notes in Artificial Intelligence. Springer, 2015.

Thomas E. Allen. Making CP-Nets (More) Useful. Doctoral Consortium. *AAAI Conference on Artificial Intelligence (AAAI-14)*, 3057–3058.

Joshua T. Guerin, Thomas E. Allen, and Judy Goldsmith. Learning CP-net preferences online from user queries. Late-breaking paper and poster. *AAAI Conference on Artificial Intelligence (AAAI-13)*. Bellevue, Washington, 2013.

TUTORIAL

February 2016 AAAI-16 (scheduled)
Association for the Advancement of Artificial Intelligence
Phoenix, Arizona, USA
“Tutorial: CP-nets” (with Judy Goldsmith and Francesca Rossi)

PRESENTATIONS

Invited Talk

October 2015 Science Seminar
Valdosta State University, Valdosta, Georgia, USA
“Computing What We Want: A Gentle Introduction to Computational Preferences”

Other Talks

September 2015 Doctoral Consortium, ADT 2015
Algorithmic Decision Theory, Lexington, Kentucky, USA
“CP-nets: From Theory to Practice”

January 2015 ATSE-2015
The AAAI-15 Workshop on Artificial Intelligence Applied to Assistive Technologies and Smart Environments, Austin, Texas
“I Prefer to Eat ...”

July 2014 Doctoral Consortium, AAAI-14
Association for the Advancement of Artificial Intelligence
Québec City, Québec, Canada
“Making CP-nets (More) Useful”

July 2014 MPREF 2014
AAAI Multidisciplinary Workshop on Advances in Preference Handling
Québec City, Québec, Canada
“Counting, Ranking, and Randomly Generating CP-nets”

November 2013 Department of Pure and Applied Mathematics
University of Padua, Padua, Italy
“CP-nets with Indifference”
“Learning CP-nets Online from User Queries”

October 2013 Keeping Current (Computer Science Departmental Seminar)
University of Kentucky, Lexington, Kentucky, USA
“CP-nets with Indifference”

October 2013 Allerton Conference on Communication, Control and Computing
University of Illinois at Urbana–Champaign, USA
“CP-nets with Indifference”

SERVICE

Program Committee Membership

AAAI Multidisciplinary Workshop on Advances in Preference Handling (MPREF 2014)

Reviewing (Conference Proceedings and Journals)

Association for the Advancement of Artificial Intelligence (AAAI-15, AAAI-16)

International Joint Conference on Artificial Intelligence (IJCAI-13)

Journal of Heuristics

IEEE Transactions on Cybernetics

Other

Assisted in organizing the Algorithmic Decision Theory (ADT 2015) and Logic Programming and Non-Monotonic Reasoning (LPNMR 2015) conferences, Lexington, Kentucky, 2015

Led Microteaching group for new teaching assistants at the University of Kentucky, 2015

Presentation to area students, “Cracking the Cracker Barrel I.Q. Test” (Peg Game), EDAY 2014