

Bio, Judy Goldsmith

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

1988 PhD., Mathematics, University of Wisconsin

1985 M.A., Mathematics, University of Wisconsin

1982 A.B., Mathematics, Princeton University

EXPERIENCE

2005 – Present Professor, University of Kentucky

Fall 2006 Adjunct Professor, University of Illinois at Chicago

Spring 2000 Visitor, Boston University

Fall 1999 Visiting Scholar, University of Illinois at Chicago

1998 – 2005 Associate Professor, University of Kentucky

1993 – 1998 Assistant Professor, University of Kentucky

1991 – 1993 Assistant Professor, University of Manitoba

1990 – 1991 Visiting Professorship for Women, NSF, Boston University

1988 – 1990 John Wesley Young Research Instructor, Dartmouth

A FEW RELEVANT PAPERS

1. The computational complexity of probabilistic planning. ML Littman, J Goldsmith, M Mundhenk. *Journal of Artificial Intelligence Research* 9, 1-36, 1998.
2. Complexity of finite-horizon Markov decision process problems. M Mundhenk, J Goldsmith, C Lusena, E Allender. *Journal of the ACM (JACM)* 47 (4), 681-720, 2000.
3. Topological value iteration algorithms. P Dai, DS Weld, J Goldsmith. *Journal of Artificial Intelligence Research* 42, 181-209, 2011.
4. The complexity of probabilistic lobbying. D Binkele-Raible, G Erdélyi, H Fernau, J Goldsmith, N Mattei, J Rothe. *Discrete Optimization* 11, 1-21, 2014.
5. On the complexity of bribery and manipulation in tournaments with uncertain information. N Mattei, J Goldsmith, A Klapper, M Mundhenk. *Journal of Applied Logic* 13 (4), 557-581, 2015.

SOME ADDITIONAL PAPERS

1. Erdélyi, Olivia J., and Judy Goldsmith. "Regulating artificial intelligence: Proposal for a global solution." In *Proc 2018 AAAI/ACM Conference on AI, Ethics, and Society*, pp. 95-101. ACM, 2018.
2. Thomas E. Allen, Judy Goldsmith, Hayden Elizabeth Justice, Nicholas Mattei, Kayla Raines, "Uniform random generation and dominance testing for CP-nets," *Journal of Artificial Intelligence Research (JAIR)* 59, 771–813, 2017.
3. Allen, Thomas E., Judy Goldsmith, Hayden Elizabeth Justice, Nicholas Mattei, and Kayla Raines. "Generating CP-nets uniformly at random." In *Thirtieth AAAI Conference on Artificial Intelligence*. 2016.

4. Sam Saarinen, Judy Goldsmith, and Craig Tovey, “Probabilistic Copeland Tournaments,” *Proceedings of the 2015 International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)*, 2015.
5. Goldsmith, Judy, Jérôme Lang, Nicholas Mattei, and Patrice Perny. “Voting with rank dependent scoring rules.” In *Proc. Twenty-Eighth AAAI Conference on Artificial Intelligence*. 2014.

SYNERGISTIC ACTIVITIES

1. Goldsmith, with coauthors Burton, Mattei, Siler, and Swiatek, have a contract with MIT Press to publish a textbook on computer ethics, using science fiction, due out in January 2021. This methodology has been featured in recent articles in CACM and in Wired Magazine, among others.
2. Goldsmith has received the AAAS Mentoring Award (1999) and the CRA-E Undergraduate Research Mentoring Award (2015), and has been nominated for an NCWIT mentoring award and a PAESMEM (NSF/Presidential) mentoring award this year, for her work in supporting people from underrepresented groups in STEM and particularly CS at all levels.
3. She is a Senior Member of AAAI and a member of the Executive Committee of AAAI.
4. She has co-organized the Senior Members Track at AAAI 2019 and 2020.
5. She is an Associate Editor at Artificial Intelligence Journal, and has served on the editorial board of JAIR in the recent past.