Daniel S. Weld

Education

Ph.D.	Artificial Intelligenc Massachusetts Institute of Technology	1988
M.S.	Computer Science Massachusetts Institute of Technology	1984
B.S.	Computer Science (Cum Laude & Highest Honors)	1982
B.A.	Molecular Biophysics and Biochemistry Yale University	

Employment

University of Washington
Computer Science and Engineering

Professor	1997
Associate Professor	1993--97
Assistant Professor	1989--93

Computer Science

Assistant Professor	1988--89

Honors

Fellow American Association of Artificial Intelligence	1999
Edge Award for best use of intelligent technology (in Jango) WebINNOVATION Show	1997
New Innovator's Award (for Jango) CommerceNet	1997
Award for Technological Innovation in Computer Software (Internet Softbot one of five finalists) Discover Magazine	1995
Young Investigator Award Office of Naval Research	1990
Presidential Young Investigator Award National Science Foundation	1989
John E. Bierwirth Scholarship Yale University	1979--82
Wilfred Freeman Fellowship Phillips Academy	1978

Selected Grants

National Science Foundation 1999--01
Principal Investigator (with Etzioni) *Automated Reference Librarians for the WWW,* $598,111.

National Science Foundation 1998--01
Principal Investigator, *Extending Graphplan to Handle Uncertainty & Sensing Action,* $547,576.

Office of Naval Research 1997--00
Principal Investigator, grant no. N00014-98-1-0147, *Planning-Based Information Agents,* $313,041.

Advanced Research Projects Agency / Rome Labs 1995--98
Principal Investigator (with Etzioni & Hanks), grant no. F30602-95-1-0024:*Softbots: Customizable Agents for the NII,* $1,376,118.

National Science Foundation 1994--99
Principal Investigator, grant no. IRI-9303461: *Principled Planning with Simultaneous Actions, Metric Time and Continuous Effects*, $400,000.

Office of Naval Research 1994--97
Principal Investigator, grant no. N00014-94-1-0060, *Integrating Case Based Search Control with Reduction Schemata for Planning*, $300,000.

Office of Naval Research 1990--93
Principal Investigator, grant no. N00014-90-J-1904 & P00001: *Automated Model Management* (Young Investigator Award), $284,000 (including 19% UW contribution).

National Science Foundation 1989--94
Principal Investigator, grant no. IRI-8957302: *Presidential Young Investigator Award*, $300,000.

National Science Foundation 1989--91
Principal Investigator, grant no. IRI-8902010: *Managing Complexity in Qualitative Physics*, $125,649.

Selected Professional Activities

Advisory & Review Boards:
- Elected Councillor of the American Association of Artificial Intelligence (AAAI) (1994--1997)
- Member of Advisory Board, *Journal of Artificial Intelligence Research* (1992--)
- Member and Editor, AAAI/NSF Committee on Intelligence in the NII (1994)
- Member, AAAI/ARPA Committee on Twenty-First Century Intelligent Systems (1994)

Editorial Activities:
- Editorial Board Member, *Artificial Intelligence* (1999--)
- Guest Editor, *Artificial Intelligence* special issue on Intelligent Internet Systems (1998)
- Associate Editor, *Journal of Artificial Intelligence Research* (1993--1996)
- Guest Editor, *Computational Intelligence* special issue on qualitative reasoning (May 1992)

Program Committee Chair:
- AAAI (1996)
- International Workshop on Qualitative Reasoning (1993)

Selected Industrial Activities

Founder, Nimble.com (1999)
Founder, AdRelevance Inc. (1998)
Founder, Netbot Inc. (1996) Creator of Jango shopping search

Doctoral Degrees Supervised

Marc Friedman *Representation and Optimization for Data Integration* (1999)
- Software Development Engineer, Viathan Inc. (Seattle)

Nick Kushmerick *Wrapper Induction for Information Extraction* (1997)
- College Lecturer, Department of Computer Science, University College Dublin, Ireland

Keith Golden *Planning with Incomplete Information* (1997)
- Research Staff, NASA Ames Research Labs

Anthony Barrett *Hierarchical Task Network Planning with an Expressive Action Language* (1997)
- Research Staff, JPL

Franz Amador *Self-Explanatory Simulation for an Electronic Encyclopedia* (1994)
- Senior Software Architect, Excite Inc.

J. Scott Penberthy *Planning with Continuous Change* (1993)
- Technical Advisor to the Chairman, IBM

Selected Bibliography (favorite 10 papers)

Smith, D. and Weld, D. "Temporal Planning with Mutual Exclusion Reasoning," *Sixteenth International Joint Conference on Artificial Intelligence* (IJCAI-99), Stockholm, Sweden, August 1999.

Wolfman, S. and Weld, D., "The LPSAT Engine & its Application to Resource Planning," *Sixteenth International Joint Conference on Artificial Intelligence* (IJCAI-99), Stockholm, Sweden, August 1999.

Weld, D., "Recent Advances in AI Planning," *AI Magazine*, **20**:2, 93--123, Summer 1999.

Ives, Z. and Florescu, D. and Friedman, M. and Levy, A. and Weld, D., "An Adaptive Query Execution System for Data Integration," *1999 ACM Conference on Management of Data* (SIGMOD-99), Philadelphia, PA, June 1999.

Lau, T. and Weld, D., "Programming by Demonstration: An inductive learning formulation," *1999 ACM International Conference on Intelligent User Interfaces* (IUI-99), Orlando, FL, January 1999.

Kushmerick, N. and Doorenbos, R. and Weld, D., "Wrapper Induction for Information Extraction," *Fifteenth International Joint Conference on Artificial Intelligence* (IJCAI-97), 7 pages, Nagoya Japan, August 1997.

Ernst, M. and Millstein, T. and Weld, D., "Automatic SAT-Compilation of Planning Problems," *Fifteenth International Joint Conference on Artificial Intelligence* (IJCAI-97), 8 pages, Nagoya Japan, August 1997.

Etzioni, O., Golden, K. and Weld, D., "Sound and Efficient Closed-World Reasoning for Planning," *Artificial Intelligence*, **89**:113--148, 1997.

Barrett, A. and Weld, D., "Partial Order Planning: Evaluating Possible Efficiency Gains," *Artificial Intelligence*, **67**:71-112, May 1994.

Penberthy, J. S. and Weld, D., "UCPOP: A Sound, Complete, Partial-Order Planner for ADL," *Third International Conference on Principles of Knowledge Representation and Reasoning* (KR-92), 103--114, Cambridge, MA, October 1992.