

MARK H. GOADRICH

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EDUCATION

Aug '98 - Present

University of Wisconsin - Madison, Madison, Wisconsin

Computer Science - M.S. May '00

Expected Ph.D. Dec '06

Coursework Includes:

- Machine Learning
- Bioinformatics
- Computational Complexity
- Database Management Systems
- Research in Computational Politics

Honors and Organizations:

- 2004 International Conference on Inductive Logic Programming Best Student Paper Award
- 2002-2004 Computation and Informatics in Biology and Medicine Trainee
- 2002-2003 UW ACM Chapter President
- 2001-2002 UW ACM Chapter Social Chair
- 2000 Outstanding Graduate Student Instructor in UW CS Department
- IEEE '98 - '03
- SACM '98 - '03
- Sigma Xi '98 - '03

Aug '94 - May '98

Kenyon College, Gambier, Ohio

Mathematics and Philosophy - B.A. May '98

Coursework Includes:

- Discrete Mathematics
- Linear Algebra
- Symbolic Logic
- Automated Theorem Proving
- Formal Models of Cognition
- Early Analytic Philosophy

Honors and Organizations:

- Solomon R. S. Kasper Prize for creativity in computer science '98
- Kenyon Summer Science Scholar - Summer '97
- Editor - *The Kenyon Observer* '95 - '98
- Member - Kenyon College Chamber Singers '95 - '98

EXPERIENCE

Sep '01 - Present

University of Wisconsin - Madison, Madison, Wisconsin

Research Assistant for Professor Jude Shavlik

Publications:

- [The Relationship Between Precision-Recall and ROC Curves](#)
Jesse Davis and Mark Goadrich
23rd International Conference on Machine Learning (ICML), Pittsburgh, PA, USA, 26th - 28th June, 2006
- [Learning to Extract Genic Interactions using Gleaner](#)
Mark Goadrich, Louis Oliphant and Jude Shavlik
Learning Language in Logic 2005 Workshop at the International Conference on Machine Learning, Bonn, Germany, 7th August 2005
- [Learning Ensembles of First-Order Clauses for Recall-Precision Curves: A Case Study in Biomedical Information Extraction](#)
Mark Goadrich, Louis Oliphant and Jude Shavlik
14th International Conference on Inductive Logic Programming, Porto, Portugal, 6th - 8th September 2004

Submitted Publications:

- [Gleaner: Creating Ensembles of First-Order Clauses to Improve Recall-Precision Curves](#)
Mark Goadrich, Louis Oliphant and Jude Shavlik
Submitted to Machine Learning

Jun '01 - Aug '01

University of Wisconsin - Madison, Madison, Wisconsin
Instructor

Introduction to Artificial Intelligence (CS540)

- Instructor of 30 students upper-class CS majors.
- Managed teaching assistant and prepared extensive course webpage.
- Lecture topics included Search Spaces, Genetic Algorithms, Knowledge Representation, Machine Learning and Probability.

Jan '01 - May '01
Aug '98 - May '00

University of Wisconsin - Madison, Madison, Wisconsin
Teaching Assistant

Introduction to Programming in Java (CS302)

- Stand-alone instructor of 40 students.
- Prepared extensive course webpage with demonstration programs.
- Delivered lectures and assisted students in office hours.

Introduction to Artificial Intelligence (CS540)

- Organized and led weekly discussion section.
- Created and graded homework in Java.
- Lectured on "Formalizing a Search Space" and "Propositional Logic".
- Course included decision trees, neural networks, uncertainty, and predicate calculus.

Using Computers (CS132)

- Instructor of fifty students in basics of Microsoft Office, Internet, and Windows NT.
- Developed extensive handouts covering Office tutorials.
- Redesigned course webpage.

June '00 - Nov '00

Southwest Research Institute, San Antonio, Texas
Research Analyst

- Initiated redesign of military ground game software.
- Researched, developed, and implemented quadtree spatial data structure.
- Supported client software use at Joint Military Exercise JEFX'00.

May '99 - Dec '99

Computation, Vision and Geometry Research Group, Madison, Wisconsin
Webmaster

- Organized content for presentation to sponsors.
- Designed user-friendly template for all group web-pages.
- Maintained current events and additional research project pages.

Aug '95 - May '98

Information and Computing Systems, Gambier, Ohio
Helpline Operator / Computer Consultant

- Answered computer-related questions by telephone.
- Routed service requests via database.
- Performed on-site assistance for faculty and students.

COMPUTER SKILLS

Systems: Microsoft Windows 3.11, 95, 2000, NT and XP, MacOS, Unix, Linux

Languages: Java, Prolog, HTML, XML, XSLT, Scheme, C++, Perl

Knowledge: Microsoft Office, Aleph & YAP, Adobe Illustrator 8.0, Matlab v5, Frontier v5

REFERENCES

Available upon request