Natalia Hernández Gardiol

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EDUCATION

◇ **Massachusetts Institute of Technology**, Cambridge, MA.
Ph.D. in Electrical Engineering and Computer Science, expected 2006.
M.Sc. in Electrical Engineering and Computer Science, February 2003.
Master's thesis: *Applying Probabilistic Rules To Relational Worlds*

◇ **Michigan State University**, East Lansing, MI.
B.Sc. in Computer Science and Engineering, December 1999.

HONORS & AWARDS

GE Fund Faculty for the Future Fellowship, Spring 2004.

National Science Foundation Graduate Research Fellowship. 3-Year Fellowship, Fall 2000.

Outstanding Undergraduate Research Award, Computing Research Association. Winner, December 1999.

Professorial Assistantship, Michigan State University. 2-Year Grant, Spring 1995

Spartan Scholarship, Michigan State University. 4-Year Scholarship, Spring 1995

RESEARCH INTERESTS

Reinforcement learning, Planning, Probabilistic logical models, Decision-making under uncertainty.

PAPERS

◇ **R**efereed Conferences

Natalia H. Gardiol, Leslie Pack Kaelbling, Envelope-based Planning for Relational MDPs Advances in Neural Information Processing Systems 16 (NIPS*2003).

Sarah Finney, Natalia H. Gardiol, Leslie Pack Kaelbling, Tim Oates, "The Thing That We Tried Didn't Work Very Well: Deictic Representation in Reinforcement Learning", 18th International Conference on Uncertainty in Artificial Intelligence, Edmonton, August 2002 (UAI-02)

Natalia Hernandez Gardiol and Sridhar Mahadevan, "Hierarchical Memory-based Reinforcement Learning", Advances in Neural Information Processing Systems 13, Denver, December 2000 (NIPS*2000).

◇ **M**aster's Thesis

Natalia H. Gardiol, "Applying Probabilistic Rules To Relational Worlds", M.S. Thesis, MIT AI Lab, November 2002.

◇ **T**echnical Reports

Sarah Finney, Natalia H. Gardiol, Leslie Pack Kaelbling, Tim Oates,"Learning with Deictic Representation" (AIM-2002-006), MIT AI Lab tech report, April 2002.

Leslie Pack Kaelbling, Tim Oates, Natalia Hernandez Gardiol, Sarah Finney, "Learning in Worlds with Objects", Working Notes of the AAAI Stanford Spring Symposium on Learning Grounded Representations, March 2001.

RESEARCH EXPERIENCE

- **Research Assistant** (September 2000 - present) Massachusetts Institute of Technology, AI Lab. Advisor: Leslie Pack Kaelbling.
- **Research Assistant** (September 1998 - June 2000) Michigan State University, CSE Dept, Autonomous Agents Lab. Advisor: Sridhar Mahadevan.
- **Undergraduate Researcher** (May 1997 - December 1997) Michigan State University, CSE Dept, Pattern Recognition and Image Processing Lab. Advisor: Anil Jain.
- **Undergraduate Researcher** (September 1996 - May 1997) Michigan State University, CSE Dept, GARAGe Lab. Advisor: Bill Punch.

INDUSTRIAL EXPERIENCE

- **Engineering Co-operative Education Internship** (January 1998 - August 1998) IBM Global Services, Southbury Connecticut. Advisor: Linda Yue.

TEACHING EXPERIENCE

- **T**eaching Assistant (September 2002 - December 2002) Massachusetts Institute of Technology, Course: Graduate-level introduction to Artificial Intelligence techniques.

PROFESS. ACTIVITIES

- **Journal Reviewing**
  Journal of Artificial Intelligence Research
- **Conference Reviewing**
  Neural Information Processing Systems conference (NIPS) 2003, 2004; International Joint Conference on Artificial Intelligence (IJCAI) 2003, 2005; Robotics Science & Systems, 2005.
- **S**ociety Memberships Tau Beta Pi, American Association for Artificial Intelligence (AAAI).