

# Natalia Hernández Gardiol

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- ACADEMIC  $\diamond$  **Massachusetts Institute of Technology**, Cambridge, MA.  
BACK- Ph.D. in Electrical Engineering and Computer Science, expected 2006.  
GROUND M.Sc. in Electrical Engineering and Computer Science, February 2003.  
Master's thesis: *Applying Probabilistic Rules To Relational Worlds*
- $\diamond$  **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  $\diamond$  **Refereed Conferences**  
Sarah J. Finney, Natalia H. Gardiol, Leslie Pack Kaelbling, and Tim Oates. The thing that we tried didn't work very well: Deictic representation in reinforcement learning. In *18th Int'l Conference on Uncertainty in Artificial Intelligence (UAI-02)*, Edmonton, 2002.  
Natalia H. Gardiol and Leslie P. Kaelbling. Envelope-based planning in relational MDPs. In *Advances in Neural Information Processing 16 (NIPS-2003)*, Vancouver, 2004.  
Natalia H. Gardiol and Leslie Pack Kaelbling. Computing action equivalences for planning. In *International Conference on Automated Planning and Scheduling, Doctoral Consortium*, Cumbria, UK, 2006.  
Natalia H. Gardiol and Leslie Pack Kaelbling. Computing action equivalences for planning under time constraints. Technical Report MIT-CSAIL-TR-2006-022, MIT CS & AI Lab, Cambridge, MA, 2006.  
Natalia H. Gardiol and Leslie Pack Kaelbling. Action-space partitioning for planning. In *National Conference on Artificial Intelligence (AAAI)*, Vancouver, Canada, 2007.  
Natalia H. Gardiol and Sridhar Mahadevan. Hierarchical memory-based reinforcement learning. In *Advances in Neural Information Processing 13 (NIPS-2000)*, Denver, 2001.
- $\diamond$  **Master's Thesis**

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Natalia H. Gardiol. *Applying Probabilistic Rules To Relational Worlds*. Master's thesis, MIT, Cambridge, MA, 2002.

◇ **Technical Reports**

Sarah J. Finney, Natalia H. Gardiol, Leslie Pack Kaelbling, and Tim Oates. "Learning with deictic representations". Technical Report AIM-2002-006, MIT AI Lab, Cambridge, MA, 2002.

Leslie Pack Kaelbling, Tim Oates, Natalia H. Gardiol, and Sarah J. Finney. "Learning in worlds with objects". In *Working Notes of the AAAI Stanford Spring Symposium on Learning Grounded Representations*. March 2001.

RESEARCH ◇ **Research Assistant** (September 2000 - present) Massachusetts Institute  
EXPERI- of Technology, AI Lab. Advisor: Leslie Pack Kaelbling.

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

TEACHING ◇ **Teaching Assistant** (September 2002 - December 2002) Massachusetts  
EXPERI- Institute of Technology, Course: Graduate-level introduction to Artificial  
ENCE Intelligence techniques.

PROFESS. ◇ **Journal Reviewing**  
ACTIVITIES 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.

◇ **Society Memberships**  
Tau Beta Pi, American Association for Artificial Intelligence (AAAI).