

# Jessica Anne Howe

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- EDUCATION
- ◇ **Massachusetts Institute of Technology**, Cambridge, MA.  
M.S. in Electrical Engineering and Computer Science: 2004.  
Living Machines and Humanoid Robotics research group, Artificial Intelligence Laboratory.
  - ◇ **Western Washington University**, Bellingham, WA.  
B.S., double major in Mathematics and Computer Science: 2001.  
WWU Outstanding Graduate 2001.
  - ◇ **North Seattle Community College**, Seattle, WA.  
A.S. Degree: 1998.
- RELATED EXPERIENCE
- ◇ **Research Assistant**, MIT Artificial Intelligence Laboratory (2001 - 2004)  
Expanded a distributed robotic control language, helped develop a hardware platform used to control autonomous mobile robots, built an autonomous robot for testing hardware and software expansions.
  - ◇ **Teaching Assistant**, MIT EECS Department (2003 - 2004)  
Graduate course Techniques in Artificial Intelligence: developed Java infrastructures to be used in class assignments, led student recitations and course review sessions.
  - ◇ **Program Manager**, AT&T Research Labs, Florham Park, NJ (2000 - 2001)  
Developed spoken dialogue systems for use in an online chat community and in an automated calendar agent. Tasks included creating a dialogue parsing grammar, text to speech capabilities and system control architecture.
- LEADERSHIP EXPERIENCE
- ◇ **Associate Director**, MIT Women's Technology Program (2003)  
Directed and oversaw academic course contents, technology usage, residences and staff relations for a high school summer academic program in Computer Science, Electrical Engineering and Mathematics.
  - ◇ **Instructor**, MIT Women's Technology Program (2002)  
Developed curriculum and taught a course in discrete mathematics and theoretical computer science.
  - ◇ **Graduate Residence Tutor**, MIT East Campus Dormitory (2002 - 2004)  
Acted as hall advisor and liason between administration and undergraduate students.
  - ◇ **Invited Speaker**, MIT EECS Dangerous Ideas Seminar Series (2003)  
Spoke on the status of women in the Computer Science field as a whole, at MIT, and in our department. Explored noted reasons for gender discrepancies and obligations members of this community hold to address this situation.
- TECHNICAL SKILLS
- ◇ Windows, Mac and UNIX based operating systems.
  - ◇ Java, C, C++, Lisp, Scheme, Assembly, Perl and a variety of other programming languages.
  - ◇ Strong background in mathematics, theoretical computer science, algorithms, distributed systems and networks.
  - ◇ Interests focus on distributed systems, networks, emergent behavior and genetic algorithms.
  - ◇ Fluent in Spanish.
- OUTSIDE INTERESTS
- ◇ Playing traditional Irish music: Irish flute, whistle, tenor banjo, mandolin
  - ◇ Tap dancing, Irish step dancing
  - ◇ Ultimate frisbee, ice hockey