

James A. Rising

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EDUCATION

- 1999 – 2003 **Massachusetts Institute of Technology** – Bachelor of Science in Philosophy, 2003. Considerable course work in computer science, mathematics, and engineering.
- 1996 – 1999 **University of Massachusetts at Lowell** – High school cross-registration, with classes in mathematics, EECS, and writing/literature.

TEACHING EXPERIENCE

Official Semester Seminars and Classes:

- October 1999 – **Experimental Study Group** – Coordinated over a dozen seminars on subjects ranging
May 2003 from religious studies to future physics. Undergraduate mentor to freshmen in ESG for
3 years. Most of the classes below were organized within ESG.
- Fall 2000 – **Lego Robotics Seminar** – Principle coordinator, lecturer (1 hr/wk), and workshop
Spring 2003 supervisor (4-8 hrs/wk) for 3-9 students (6 semesters).
- Spring 2001 – **Structure and Interpretation of Computer Programs** – (MIT's introductory
Spring 2002 CS class) Recitation instructor for 6 students in ESG; lectured (2 hrs/wk), designed
curriculum, graded projects, and helped outside of class (2 semesters).
- Spring 2002 **Determinable Seminar** – Coordinated two students working on self-selected projects;
held discussions and individual meetings.
- Spring 2003 **Technologies and Cultures** – Co-taught seminar exploring the interrelations between
technology and society in historical perspective through readings, discussions (2 hrs/wk)
and workshops (2 hrs/wk).
- Spring 2003 **The Learning Seminar** – Taught reading and discussion-based seminar on experi-
ments in education and methods of learning.

Some Activities Taught for MIT's Independent Activities Period:

- 2001 **Zen and the Art of Motorcycle Maintenance** – Reading and discussion group
- 2002, 2003 **Story Telling Circle** – Activity for reading and telling stories
- 2002, 2003 **Medieval Chainmail Workshops** – Taught chainmail weaves and ran workshops
- 2002, 2003 **Rythmomachy Seminar** – Taught mathematical chess-like game

Notable Unofficial Seminars Taught:

- 2000, Spring 2002 **Godel, Escher, Bach Study Group** – Reading, discussion, and activities
- Summer 2000 **Grand Unified Theories Study Group** – Research and discussion group
- Spring 2001 **Memory Seminar** – Activities for improving memory and memorizing
- Summer, Fall 2001 **Story Telling Group** – Group for reading and telling stories
- Spring 2002 **Artificial Intelligence Workshop** – Lectures on AI, workshops to create web-based AI

COMPUTER EXPERIENCE

Over 10 years of programming experience, including over 5 years of summer software development jobs, working in C, C++, Java, VB, assembly, and scripting languages on projects including signal processing, databases, user interfaces, web development, server-client programs, face recognition, and statistical analysis. In addition, worked on dozens of independent software projects, including artificial intelligence, physical modeling, linguistics, and microprocessor-controlled systems.

Programming Languages:

Considerable experience and work in C, C++, Java, Scheme, Assembly, Hypercard, and HTML

Limited experience and work in Basic (and VB), Perl, SAS, and SQL. Familiarity with many more.

Experienced with Macintosh, Windows, and Unix/Linux operating systems.

AWARDS

- May 2000 **Fiekowsky Community Service Award**, Experimental Study Group
- May 2003 **Todd Anderson Teaching Award**, Experimental Study Group

References available upon request.