

**BRANDON R. SHEA**

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**Experience**

- 1994 to current **Senior Research Fellow** Massachusetts Institute of Technology, Cambridge, MA
- Supervised Monitor pulsar project. Managed staff of four analysts.
  - Responsible for structuring standard analysis, monitoring campaign, and publishing findings.
  - Analyzed very large quantity of data drawn from many sources with significant variability. Developed analysis techniques and numerical models to illustrate project findings.
- 1997 **Summer Instructor** University of Southern California, Los Angeles, CA
- Developed the curriculum for a three-month class in only one week, cutting the standard development time by 70%.
  - Received the highest ratings from student reviews ever received for a scientific class.
- 1996 **Member, Board of Directors** Colton Homeowner's Association, Pasadena, CA
- Elected to Board of Directors of 100-member homeowner's organization.
  - Responsible for managing \$150,000 budget and negotiating contracts.
  - Identified opportunity for management improvements that resulted in 20% annual savings in homeowners' costs.
- 1991-1994 **Research Associate** University of Utrecht, The Netherlands
- Developed a computationally efficient technique for signal detection with parallel supercomputers.
  - Discovered microsecond time lags in binary stars, and developed optimal techniques for measuring time differences between noisy aperiodic signals.
- 1988-1991 **Research Assistant** Harvard University, Cambridge, MA
- Promoted from Teaching Assistant.
  - Initiated worldwide campaign to observe an astronomical object.
  - Published four papers that helped solve a long-standing problem related to binary stars.
  - Became the youngest recipient of the Alton Bergmann Research Publication Award for excellence in scientific publishing.

**Education**

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY** Cambridge, MA

Engineering Management Certificate, 1997.

Coursework included general business and management topics.

**HARVARD UNIVERSITY** Cambridge, MA

Ph.D., Physics, September 1991.

**OBERLIN COLLEGE** Oberlin, OH

B.A., Physics, with Highest Honors, May 1986.

**Other**

Fluent in Dutch, Japanese, and German.

Active swimmer and member of the Harvard cycling team.