Jeremy David Schnittman - Curriculum Vitae

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EDUCATION

2000-2005 Massachusetts Institute of Technology *Cambridge, MA*
PhD in theoretical astrophysics. Thesis title: "Radiation Transport Around Kerr Black Holes."

1999-2000 Blechner College/Yeshivat Hamivtar *Efrat, Israel*
One-year course of study in traditional Jewish texts, focusing on ritual law in the Talmud.

1995-1999 Harvard University *Cambridge, MA*
BA in Physics, *summa cum laude.*

1991-1995 J. C. Wilson Magnet High School *Rochester, NY*
New York State Regents Diploma with Honors.

EMPLOYMENT

2005 Postdoctoral Fellow; Department of Physics, MIT
Continued the development of radiation transport codes for accreting black holes.

2003-2004 Research Assistant; Department of Physics, MIT
Graduate research supported by NASA ATP grant NAG5-13306, Edmund Bertschinger (PI).

2002 Summer Student; Goddard Space Flight Center, NASA
An intense hands-on style seminar to train graduate students in high performance computing, focusing on parallel processing and advanced numerical methods.

1994-1999 Research Associate; Laboratory for Laser Energetics, University of Rochester
Developed a computer code to model laser fusion targets used on the Omega laser and the National Ignition Facility (NIF). This code has been used extensively to analyze and design experiments.

1997-1999 Research Associate; Plasma Science and Fusion Center, MIT
Developed data analysis algorithms for a charged particle spectrometer used on the Omega laser system at the University of Rochester.

1996-1997 Course Assistant; Department of Mathematics, Harvard University
Section instructor for an introductory undergraduate calculus course. Taught two weekly recitations and graded homework and quizzes.

1996 Summer Student; Lawrence Livermore National Laboratory, Univ. of California
Continued development of a computer code to investigate alternative designs for fusion ignition targets on the NIF, leading to a new design for laser beam positions in the NIF target chamber.

FELLOWSHIPS AND AWARDS

2000-2003 National Science Foundation Graduate Research Fellowship
2000-2002 MIT Physics Department Karl Taylor Compton Graduate Fellowship
1999 United States Department of Energy Computational Science Graduate Fellowship
1998 Phi Beta Kappa, Alpha-Iota Chapter
1995-1999 John Harvard Scholarship
1994 Advanced Placement National Scholar

SKILLS AND INTERESTS

Computer Knowledge
Proficient in C, Matlab, IDL, MPI, and LaTeX
Experience in Fortran, Maple, Mathematica, and UNIX
Interests and Hobbies
Talmud and Jewish law, astronomy, chess, mountain climbing, baseball, Russian literature