

Curriculum Vitae
Jeffrey S. Oishi

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US citizen

Education

- 2001-2007 UNIVERSITY OF VIRGINIA, Charlottesville, VA
 PhD, Astronomy August 2007
- 1996-2000 COLUMBIA UNIVERSITY, New York, NY
 BS, Applied Physics received May 2000

Experience

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|-------------------------|--|
| January 2008-present | Postdoctoral Researcher, University of California, Berkeley |
| August-December 2007 | Postdoctoral Fellow, American Museum of Natural History |
| July-August 2006 | Annette Kade Graduate Fellow, Max-Planck-Institut für Astronomie |
| August 2003-August 2007 | Research Assistant, American Museum of Natural History |
| August 2002- May 2003 | Head Teaching Assistant, Department of Astronomy, University of Virginia |
| July 2002 | Instructor, Department of Astronomy, University of Virginia |
| August 2001-May 2003 | Teaching Assistant, Department of Astronomy, University of Virginia |

Publications

Submitted & In Preparation

“Dynamo Driven Transport in Magnetorotational Turbulence”, **Oishi, J. S.** & Mac Low, M.-M. , 2009 *Phys. Rev. Lett.*, to be submitted November 2009

“On the Stability of Heavy Vortices”, Chang, P., & **Oishi, J. S.**, 2009 *Astrophys. J.*, to be submitted November 2009

Refereed Journals

“On Hydrodynamic Motions in Dead Zone”, **Oishi, J. S.** & Mac Low, M.-M., 2009, *Astrophys. J.*, 704, 1239

“A Constrained-Transport Magnetohydrodynamics Algorithm with Near-Spectral Resolution”, Maron, J. L., Mac Low, M.-M., & **Oishi, J. S.**, 2008, *Astrophys. J.*, 677, 520

“Turbulent Torques on Protoplanets in a Dead Zone”, **Oishi, J. S.**, Mac Low, M.-M., & Menou, K., 2007, *Astrophys. J.*, 670, 805

Publications (continued)

“Dynamical Expansion of H II Regions from Ultracompact to Compact Sizes in Turbulent, Self-gravitating Molecular Clouds”, Mac Low, M.-M., Toraskar, J., **Oishi, J. S.**, & Abel, T., 2007, *Astrophys. J.*, 668, 980

“Rapid planetesimal formation in turbulent circumstellar disks”, Johansen, A., **Oishi, J. S.**, Low, M.-M. M., Klahr, H., Henning, T., & Youdin, A., 2007, *Nature*, 448, 1022

“The Inability of Ambipolar Diffusion to set a Characteristic Mass Scale in Molecular Clouds,” **Oishi, J. S.** & Mac Low, M. -M. 2006, *Astrophys. J.*, 638, 281

“Cassiopeia A and Its Clumpy Presupernova Wind,” Chevalier, R. A., & **Oishi, J.** 2003, *Astrophys. J. Letters*, 593, L23

Synergistic Activities

2006-present co-founder & participant, Small Science Collective (<http://smallsciencezines.blogspot.com>)

Lectures

2009 “The Magnetic Universe”, East Bay Astronomical Society, Oakland, CA
2009 “From Stardust to Planets via Silicon: Computer Experiments and Planet Formation”, East Bay Astronomical Society, Oakland, CA
2008 “From Stardust to Planets via Silicon: Computer Experiments and Planet Formation”, Tri-Valley Stargazers, Livermore, CA
2006 “Beyond the Classroom: Math as Culture,” lecture to high school math students on how scientists use math in everyday work, American Museum of Natural History, New York, NY

Courses

2005 Developed and co-taught “Hidden in Plain Sight: Computers, Data Exploration & Science in the 21st Century,” Hayden Planetarium public course (5 weeks)
2000 Developed and taught “Mathematics and the Real World,” Hayden Planetarium public course (5 weeks)

Collaborators

Chris McKee (UC Berkeley)
Richard Klein (Lawrence Livermore National Lab/Berkeley)
Phil Chang (Canadian Institute for Theoretical Astrophysics)
Mordecai-Mark Mac Low (American Museum of Natural History)
Kristen Menou (Columbia University)
Anders Johansen (Leiden Observatory)
Hubert Klahr (Max Planck Institute for Astronomy)