Holly L. Maness

Current Address: 601 Campbell Hall, Astrophysics Dept, UC Berkeley, Berkeley, CA 94720
hmaness@astro.berkeley.edu, http://astron.berkeley.edu/~hmaness/, 510-643-0465

Education

University of California at Berkeley — *Ph.D. Student, M.A. (2006)*
Berkeley, CA. — Expected Ph.D. Completion: **May 2010**
Astrophysics

Grinnell College — *B.A.*
Grinnell, IA. — **May 2004**
Physics

Research Appointments

University of California at Berkeley — *Graduate Student Researcher*
Berkeley, CA. — **Summer 2004 – present**
Faculty Advisors/Collaborators: James Graham, Paul Kalas, Reinhard Genzel, Geoff Marcy

National Radio Astronomy Observatory — *Research Intern*
Socorro, NM. — **Summer 2003 – Fall 2003**
Senior Scientist Advisor: Greg Taylor

Harvard-Smithsonian Center for Astrophysics — *Research Intern*
Cambridge, MA. — **Summer 2002 – Spring 2003**
Senior Scientist Advisor: Saku Vrtilek

Research Experience

Conceive, design & implement multi-year astronomical experiments
Compare data to models using frequentist & Bayesian statistical techniques
Analyze data collected with X-ray, optical, near-infrared & radio instruments
Model near-infrared/optical adaptive optics systems
Develop dynamical model simulations (e.g., of dust dynamics in circumstellar disks)

Teaching & Service

University of California at Berkeley — *Lecturer*
Berkeley, CA. — **Summer 2006**
Independently design, prepare & teach full hands-on introductory astronomy course to 30 undergraduate students

Society for Women in the Physical Sciences — *Astronomy Department Coordinator*
Berkeley, CA. — **Spring 2006 - Spring 2008**
– Organize annual 2-day orientation for 500 new & transfer physical science students
– Revitalize mentoring program (double previous participation-rate: 70 students)
– Coordinate 12 dinners, socials & workshops per year
– Oversee 3 full-day astronomy outreach workshops for 200 middle-school girls

Scholarly Work & Honors

Publications: 7 first-author papers, 5 co-authored papers, 9 conference presentations
Honors: Hubble Space Telescope time awarded as principle investigator (grant award TBD), 1 invited presentation, 1 selected presentation, 1 poster prize, research highlighted in "New Scientist" (8-14 Nov 2003), Very Long Baseline Array Nov 2003 Picture of the Month
Fellowships: National Science Foundation Graduate Research Fellow (2004 - present), UC Berkeley Graduate Opportunity Program Fellow (2004 - present), Barry M. Goldwater Scholar (2002 - 2004)

Computer Skills

Languages: IDL, Python; *Applications*: Latex, common word processing, spreadsheet & presentation software; *Operating Systems*: Unix/Linux, Macintosh, Windows