

Javiera M. Guedes

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INTERESTS:

Cosmology, N -body simulations, extrasolar planet detection.

EDUCATION:

2010 Ph.D. (anticipated) Astrophysics, University of California, Santa Cruz
2008 M.S. Astronomy and Astrophysics, University of California, Santa Cruz
2005 B.A. Physics, University of California, Berkeley
2005 B.A. Astronomy, University of California, Berkeley
2001 Los Angeles Pierce College

HONORS AND AWARDS

2008 Graduate Research Award in Astrobiology
2007-2010 National Science Foundation Graduate Research Fellowship (NSF GRFP)
2005 Graduation with High Distinction (UC Berkeley)
2004- Phi Beta Kappa (UC Berkeley)
2004 Edward Wark Memorial Scholarship (UC Berkeley)
2004 Pomerantz Scholarship (UC Berkeley)
2001-2002 President Honor's Medal (LA Pierce College)
2001-2002 Dean's List (LA Pierce College)

GRANTS

2008 IGPP Mini-grant (Awarded to fund observation run at CTIO, Chile)

RESEACH EXPERIENCE

2005- **N-body Simulations of Black Hole Recoil in Realistic Hosts**
University of California, Santa Cruz
Advisor: Piero Madau

2005- **Planet Formation and Detectection**
University of California, Santa Cruz
Advisor: Greg Laughlin

2003-2005 **Supernova Cosmology**
Nearby Supernova Factory, LBNL
Advisor: Greg Aldering

2004 **Near IR astronomy of the Galactic Center**
NSF REU: University of California, Los Angeles
Advisor: Andrea Ghez

2003 **Gravitational Lensing by Galaxy Clusters**
University of California, Berkeley
Advisor: George Smoot

PUBLICATIONS

Formation and Detectability of Terrestrial Planets Around Alpha Centauri B

Guedes, J. M., E. J. Rivera, E. Davis, G. Laughlin, E. V. Quintana, and D. A. Fischer 2008, ApJ, 679, 1582

The Aftermath of Black Hole Recoil in Realistic Hosts

Guedes, J., Madau, P., Zemp, M., Diemand, J., Stadel, J., and Meyer, L., 2008(a,b) (in prep)

SEMINAR & COLLOQUIUM TALKS

- 2008 **The Earths of Alpha Centauri B**
Cerro Calán, Santiago, Chile (Colloquium Talk)
- 2008 **The Earths of Alpha Centauri B**
Paris Observatory, France (Invited Seminar Talk)
- 2008 **Detectability of Earth-Like Planets Around Alpha Centauri B**
Carl Segan / SETI Institute, Mountain View, CA (Invited Colloquium Talk)
- 2008 **Formation and Detectability of Terrestrial Planets Around Alpha Centauri B**
University of Illinois, Urbana-Champaign

CONFERENCE PRESENTATIONS

- 2008 **Terrestrial Planet Formation and Detection Orbiting Alpha Centauri B**
Guedes, J., Rivera, E., Laughlin, G., Quintana, E., Fischer D.
Astrobiology Science Conference, Santa Clara Convention Center, CA
- 2008 **The Role of Black Hole Recoil in Galaxy Evolution**
Guedes, J., Madau, P., Zemp, M., Diemand, J., Stadel, J.
Galactic & Stellar Dynamics in the Era of High Resolution Surveys
Louis Pasteur University, Strasbourg, France

TEACHING

- 2007 Instructor: Galaxy Morphology, COSMOS Program (UCSC)
- 2006 Teaching Assistant: Overview of the Universe (UCSC)
- 2006 Teaching Assistant: The Formation and Evolution of the Universe (UCSC)
- 2005 Teaching Assistant: Light, Color, and Vision (UCSC)
- 2004 Teaching Assistant: Infrared Astronomy Laboratory (UC Berkeley)
- 2003 Grader: Introduction to Astrophysics (UC Berkeley)
- 2001-2002 Tutor of Mathematics, Physics, and Spanish (LA Pierce College)

EDUCATIONAL SERVICE AND OUTREACH

- 2008- Member of the Minority institute Astrobiology Collaborative (MIAC)
- 2007- Member of the AAS Committee on the Status of Minorities in Astronomy.
- 2006 Mentor of Ryan Denlinger, currently a Caltech undergraduate, region semi-finalist, Siemens Competition.
- 2005- Member of Alliances for Graduate Education and the Professoriate (AGEP)
- 2005-2006 Friends Outside Volunteer, helped inmates and their families through the incarceration process.