

Curriculum Vitae of Xianyu Tan

University of Arizona
Department of Planetary Sciences
1629 E University Boulevard
Tucson, AZ, 85721, USA

Phone: 520-626-3814
Email: xianyut@lpl.arizona.edu

Education

Master of Planetary Sciences, The University of Hong Kong (HKU) 2010-2012

B.S. of Geophysics, The University of Science and Technology of China (USTC) 2006-2010

Research Interests

Brown dwarfs, exoplanets; atmospheric dynamics – large-scale dynamics, general circulation;
Orbital dynamics – radial velocity data fitting.

Publications

Tan, X., A. P. Showman, 2016: Effect of Latent Heating on Atmospheres of Brown Dwarfs and Directly Imaged Planets. Under revision at *Astrophysical Journal*.

Komacek, T. D., A. P. Showman, **X. Tan**, 2016: Atmospheric circulation of hot Jupiters: dayside-nightside temperature differences. II. comparison with observations. Under revision at *Astrophysical Journal*.

Tan, X., M. J. Payne, M. H. Lee, E. B. Ford, A. W. Howard, J. A. Johnson, G. W. Marcy, and J. T. Wright, 2013: Characterizing the Orbital and Dynamical State of the HD82943 Planetary System with Keck Radial Velocity Data. *ApJ*, **777**, 101.

Wittenmyer, R. A., **X. Tan**, M. H. Lee, J. Horner, C. G. Tinney, R. P. Butler, G. S. Salter, B. D. Carter, H. R. A. Jones, S. J. O'Toole, J. Bailey, D. Wright, J. D. Crane, S. A. Schectman, P. Arriagada, I. Thompson, D. Minniti, and M. Diaz, 2014: A Detailed Analysis of the HD 73526 2:1 Resonant Planetary System. *ApJ*, **780**, 140.

Trifonov, T., S. Reffert, **X. Tan**, M. H. Lee, and A. Quirrenbach, 2014: Precise radial velocities of giant stars. VI. A possible 2:1 resonant planet pair around the K giant star η Cet, *A&A*, **568**, A64

Conference Presentations

Atmospheric circulation of brown dwarfs and directly imaged extrasolar giant planets with active clouds

– 48th Meeting of the Division for Planetary Sciences, Pasadena, CA, USA, November, 2016.

Effect of Latent Heating on Atmospheres of Brown Dwarfs and Directly Imaged Planets

– American Geophysical Union fall meeting, San Francisco, CA, USA, December, 2015.

Effect of Latent Heating on Atmospheres of Brown Dwarfs and Directly Imaged Planets

– Extreme Solar Systems III, HI, USA, November, 2015.

Effect of Condensate Cycles on Driving the Atmospheric Circulation of Brown Dwarfs and Directly Imaged Planets

– 46th Meeting of the Division for Planetary Sciences, Tucson, AZ, USA, November, 2014.

Atmospheric Circulation of Brown Dwarfs Generated by Large-scale Latent Heating

– Cool Star 18, Flagstaff, AZ, USA, June, 2014.

On the Dynamical State of the HD 82943 Planetary System

– Meeting of the Division on Dynamical Astronomy, Mt. Hood, OR, USA, May, 2012.

Grants/Fellowships

The NASA Earth and Space Science Fellowship (NESSF) 2014 – 2017

– Atmospheric circulation of brown dwarfs (ASTRO).

Honors and Awards

University of Arizona Galileo Circle Scholar 2015, 2016.

HKU Postgraduate Student Scholarship 2010–2012.

USTC Outstanding Student Award, Bronze (40%) 2008.

USTC Freshman Award 2006.

Employment

Research Assistant, Department of Planetary Sciences, University of Arizona 2013 – 2016.

Teaching Assistant, Department of Planetary Sciences, University of Arizona 2014, 2016

Research Assistant, Department of Earth Sciences, The University of Hong Kong 2012 – 2013.