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### Related Experience Summary

Extensive experience with interpretation of Doppler radial velocity and photometric data from extrasolar planetary systems. Hydrodynamical and climate modeling of the surface flows on known extrasolar planets. Expertise on the formation, evolution, and dynamical stability of planetary systems. Director of the systemic ([oklo.org](http://oklo.org)) and transitsearch ([transitsearch.org](http://transitsearch.org)) websites, which facilitate large scale communication of results to and collaboration with the astronomical and public communities.

### Employment History

2001-Present University of California, Santa Cruz (professor of astrophysics).

1999-2001 NASA Ames Research Center (space scientist)

1998-1999 University of California, Berkeley (postdoc)

1995-1997 University of Michigan (postdoc)

1994-1995 NAOJ Japan (postdoc)

### Education

1994 Ph.D. Astronomy & Astrophysics, University of California, Santa Cruz

1988 B.S. Physics, University of Illinois

### Professional Societies

American Astronomical Society

### Awards and Honors

NSF CAREER Award Winner (2004).

### Selected Relevant Publications

Laughlin, G., & Langton, J. 2008. Hydrodynamic Simulations of Unevenly Irradiated Jovian Planets. *Astrophysical Journal* 674, 1106-1116.

Deming, D., Harrington, J., Laughlin, G., Seager, S., Navarro, S.~B., Bowman, W.~C., Horning, K. 2007. Spitzer Transit and Secondary Eclipse Photometry of GJ 436b. *Astrophysical Journal* 667, L199-L202.

Charbonneau, D., Brown, T.~M., Burrows, A., Laughlin, G. 2007. When Extrasolar Planets Transit Their Parent Stars. *Protostars and Planets V* 701-716.

Adams, F.~C., Laughlin, G. 2006. Long-Term Evolution of Close Planets Including the Effects of Secular Interactions. *Astrophysical Journal* 649, 1004-1009.

Robinson, S.~E., Laughlin, G., Bodenheimer, P., Fischer, D. 2006. Silicon and Nickel Enrichment in Planet Host Stars: Observations and Implications for the Core Accretion Theory of Planet Formation. *Astrophysical Journal* 643, 484-500.

Laughlin, G., Bodenheimer, P., Adams, F.~C. 2004. The Core Accretion Model Predicts Few Jovian-Mass Planets Orbiting Red Dwarfs. *Astrophysical Journal* 612, L73-L76.

Bodenheimer, P., Laughlin, G., Lin, D.~N.~C. 2003. On the Radii of Extrasolar Giant Planets. *Astrophysical Journal* 592, 555-563.

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