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EMPLOYMENT

Assistant Professor, Astronomy Dept., U. of Washington, 12/2013 – present

Research Scientist, Astronomy Department, U. of Washington 11/2010 - 11/2013

VPL/IGERT Postdoctoral Research Associate to Victoria Meadows, Astronomy Department and Astrobiology Program, U. of Washington, 01/2009 - 10/2010

Postdoctoral Research Associate to Richard Greenberg, Lunar and Planetary Laboratory/Dept. of Planetary Science, U. of Arizona, 12/2004 - 01/2009

EDUCATION

Ph.D. Astronomy, University of Washington, 2004

Dissertation: Dynamics of the Initial Planetesimal Disk

Adviser: Thomas R. Quinn

M.S. Astronomy, University of Washington, 1999

B.S. Astronomy, University of Arizona, 1998

B.S. Physics, University of Arizona, 1998

SELECTED PUBLICATIONS (1 book, 76 peer-reviewed publications, 11 chapters in books)

Barnes, R. (2017) Tidal Locking of Habitable Exoplanets. *Cel. Mech. Dyn. Astron.*, 129, 509–536.

Barnes, R., Meadows, V.S. & Evans, N. (2015) Comparative Habitability of Transiting Exoplanets. *Astrophys. J.*, 814:91.

Driscoll, P. & **Barnes, R.** (2015) Tidal heating of Earth-like exoplanets around M stars: Thermal, magnetic, and orbital evolutions. *AsBio*, 15:739–760.

Barnes, R., *et al.* (2015) Long-lived Chaotic Orbital Evolution of Exoplanets in Mean Motion Resonances with Mutual Inclinations. *Astrophys. J.*, 801:101.

Barnes, R. (2015) A method to identify the boundary between rocky and gaseous exoplanets from tidal theory and transit durations. *Int. J. AsBio*, 14:321–333.

Luger, R., **Barnes, R.**, Lopez, E., Fortney, J., Jackson, B. & Meadows, V.S. (2014) Habitable Evaporated Cores: Transforming Mini-Neptunes into Super-Earths in the Habitable Zones of M Dwarfs. *Astrobiology*, 15:57–88.

Luger, R. & **Barnes, R.** (2014) Extreme Water Loss and Abiotic O₂ Buildup On Planets Throughout the Habitable Zones of M Dwarfs. *Astrobiology*, 15:119–143.

Barnes, R., Mullins, K., Goldblatt, C., Meadows, V. S., Kasting, J. F. & Heller, R. (2013) Tidal Venuses: Triggering a Climate Catastrophe via Tidal Heating. *Astrobiology*, 13:225–248.

Barnes, R., & Heller, R. (2013) Habitable Planets Around White and Brown Dwarfs: The Perils of a Cooling Primary. *Astrobiology*, 13:279–293.

Barnes, R., Greenberg, R., Quinn, T.R., McArthur, B.E. & Benedict G.F. (2011) Origin and Dynamics of the Mutually Inclined Orbits of *v* Andromedae *c* and *d*. *Astrophys. J.*, 726:71.

Formation and Evolution of Exoplanets. (2010) ed. **R. Barnes**, Wiley-VCH Publishing, Berlin.

Barnes, R., Raymond, S.N., Greenberg, R. & Jackson, B. (2010) CoRoT-7 b: Super-Earth or Super-Io? *Astrophys. J. Lett.*, 709:L95–L98.

Barnes, R., Quinn, T.R., Lissauer, J.J., & Richardson, D.C. (2009) N-Body Simulations of Growth from 1 km Planetesimals at 0.4 AU. *Icarus*, 203:626–643.

Barnes, R., & Quinn, T.R. (2004) The (In)stability of Planetary Systems. *Astrophys. J.*, 611:494–516.