

Russell Deitrick

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EDUCATION

Ph.D. Astronomy and Astrobiology, University of Washington, in progress
Dissertation: Orbital Dynamics and Habitability of Exoplanets
Advisor: Rory Barnes

M.S. Astronomy, University of Washington, 2012

B.S. Physics, University of Colorado Denver, 2010

PUBLICATIONS (students underlined)

Luger, R., Lustig-Yaeger, J., Fleming, D.P., Tilley, M.A., Agol, E., Meadows, V.S., **Deitrick, R.**, Barnes, R., 2016. The Pale Green Dot: A Method to Characterize Proxima Centauri b using Exo-Aurorae. *Astrophys. J.*, submitted.

Meadows, V.S., Arney, G.N., Schwieterman, E.W., Lustig-Yaeger, J., Lincowski, A.P., Domagol-Goldman, S.D., Barnes, R.K., Fleming, D.P., **Deitrick, R.**, Luger, R., Driscoll, P.E., Quinn, T.R., Crisp, D., 2016. The Habitability of Proxima Centauri b: II: Environmental States and Observational Discriminants. *Astrobiology*, submitted.

Barnes, R., **Deitrick, R.**, Luger, R., Driscoll, P.E., Quinn, T.R., Fleming, D.P., Guyer, B., McDonald, D.V., Meadows, V.S., Arney, G., Crisp, D., Domagol-Goldman, S.D., Lincowski, A., Lustig-Yaeger, J., & Schwieterman, E., 2016. The Habitability of Proxima Centauri b I: Evolutionary Scenarios. *Astrobiology*, submitted.

Barnes, R., **Deitrick, R.**, Greenberg, R., Quinn, T.R., & Raymond, S.N., 2015. Long-lived Chaotic Orbital Evolution of Exoplanets in Mean Motion Resonances with Mutual Inclinations. *Astrophys. J.*, 801:101.

Deitrick, R., Barnes, R., McArthur, B., Quinn, T.R., Luger, R., Antonsen, A., & Benedict, G.F., 2015. The Three-dimensional Architecture of the υ Andromedae Planetary System. *Astrophys. J.*, 798:46.

Hawley, S.L., Davenport, J.R.A., Kowalski, A.F., Wisniewski, J.P., Hebb, L., **Deitrick, R.**, & Hilton, E.J., 2014. Kepler Flares I. Active and Inactive M Dwarfs. *Astrophys. J.*, 797:121.

CONTRIBUTED PRESENTATIONS

Deitrick, R., Barnes, R., Bitz, C.M., Quinn, T.R., Armstrong, J.C., Meadows, V.S., & Charnay, B., 2016. The Nature and Impact of Obliquity Evolution on the Habitability of Earth-like Exoplanets. Astrophysics of Planetary Habitability meeting, Vienna, Austria.

Deitrick, R., Barnes, R., Quinn, T.R., Armstrong, J.C., 2015. Obliquity Evolution of Earth-like Exoplanets and its Effect on Habitability. Astrobiology Science Conference, Chicago, IL.

Deitrick, R., Barnes, R., Greenberg, R., Quinn, T.R., & Raymond, S.N., 2015. Obliquity Evolution of Earth-Like Exoplanets in Systems with Large Inclinations. DDA meeting #46, Pasadena, CA.

Deitrick, R., Barnes, R., Greenberg, R., Quinn, T.R., & Raymond, S.N., 2015. Chaotic Earths: Orbital and Rotational Evolution of Earth-like Exoplanets in Mean-Motion Resonances. Astrobiology Science Conference, Chicago, IL.

Deitrick, R., Barnes, R., McArthur, B., Quinn, T.R., Luger, R., Antonsen, A., & Benedict, G.F., 2014. Stable Configurations of the Upsilon Andromedae Planetary System. IAU Symposium 310: Complex Planetary Systems, Namur, Belgium.