
CONTACT	Univ. of Washington ··· Department of Astronomy 3910 15th Ave NE ··· Seattle, WA 98195 – U.S.A. rodluger@uw.edu ··· staff.washington.edu/rodluger/	
EDUCATION	University of Washington , Seattle, WA ··· Astronomy/Astrobiology PhD Candidate ··· MSc Astronomy, December 2013	2012 -
	Swarthmore College , Swarthmore, PA ··· BA Astrophysics / English Literature minor, May 2010	2006 - 2010
	American School of Campinas , Campinas, Brazil	2002 - 2006
RESEARCH EXPERIENCE	Researcher , Virtual Planet Laboratory @ UW ··· Research with Profs. Eric Agol, Rory Barnes, and Victoria Meadows ··· Developing methods to de-trend <i>K2</i> light curves and search for small potentially habitable transiting planets ··· Investigating the atmospheric evolution of planets in the habitable zone of M dwarfs	2012 -
	Student Researcher , Swarthmore College ··· Research under Professor Eric Jensen on planet formation and T Tauri disks	2008 - 2009
SELECTED PUBLICATIONS	Luger, R. , Sestovic, M., Kruse, E., et al. (2017) <i>A seven-planet resonant chain in TRAPPIST-1</i> . <i>Nature Astronomy</i> 1, 0129 Luger, R. , Kruse, E., Foreman-Mackey, D., Agol, Eric, and Saunders, Nicholas. (2017) <i>An update to the EVEREST K2 pipeline: Short cadence, saturated stars, and Kepler-like photometry down to Kp = 15</i> . arXiv:1702.05488. Luger, R. , Lustig-Yaeger, J., Fleming, D. P., Tilley, M. A., Agol, E., Meadows, V. S., Deitrick, R., and Barnes, R. (2017) <i>The Pale Green Dot: A Method to Characterize Proxima Centauri b using Exo-Aurorae</i> . <i>ApJ</i> 837, 63. Meadows, V. S., Arney, G. N., Schwieterman, E. W., Lustig-Yaeger, J., Lincowski, A. P., Robinson, T., Domagal-Goldman, S. D., Barnes, R. K., Fleming, D. P., Deitrick, R., Luger, R. , Driscoll, P. E., Quinn, T. R., and Crisp, D. (2016) <i>The Habitability of Proxima Centauri b: II: Environmental States and Observational Discriminants</i> . arXiv:1608.08620. 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., Domagal-Goldman, S. D., Lincowski, A., Lustig-Yaeger, J., and Schwieterman, E. (2016) <i>The Habitability of Proxima Centauri b I: Evolutionary Scenarios</i> . arXiv:1608.06919. Luger, R. , Agol, E., Kruse, E., Barnes, R., Becker, A., Foreman-Mackey, D., and Deming, D. (2016) <i>EVEREST: Pixel Level Decorrelation of K2 Light curves</i> . <i>AJ</i> 152, 100.	

Schwieterman, E. W., Meadows, V. S., Domagal-Goldman, S. D., Deming, D., Arney, G. N., **Luger, R.**, Harman, C. E., Misra, A., and Barnes, R. (2016) *Identifying Planetary Biosignature Impostors: Spectral Features of CO and O₄ Resulting from Abiotic O₂/O₃ Production*. ApJL 819, 13.

Luger, R. and Barnes, R. (2015) *Extreme Water Loss and Abiotic O₂ Buildup on Planets Throughout the Habitable Zones of M Dwarfs*. Astrobiology 15, 119.

Luger, R., Barnes, R., Lopez, E., Fortney, J., Jackson, B., and Meadows, S. (2015) *Habitable Evaporated Cores: Transforming Mini-Neptunes into Super-Earths in the Habitable Zones of M Dwarfs*. Astrobiology 15, 57.

Deitrick, R., Barnes, R., McArthur, B., Quinn, T., **Luger, R.**, Antonsen, A., and Benedict, G. (2014) *The Three-dimensional Architecture of the ν Andromedae Planetary System* ApJ 798, 46.

HONORS AND AWARDS	ARCS Fellowship	2012 - 2014
	Achievement Rewards for College Scientists Foundation Fellowship recipient	
	Bobby Berman Memorial Prize	May 2010
	Awarded to a graduating senior who has shown achievement, commitment, and leadership in Physics and Astronomy	
	The Phi Beta Kappa Society	May 2010
	Inducted member	
TEACHING EXPERIENCE	Teacher , St. Luke's School, New Canaan, CT	2010 - 2012
	... Created and taught a rigorous, college-level elective course in astrophysics aimed at seniors interested in pursuing college classes in the field	
	... Taught three sections of an 11th grade physics class with a focus on astronomy, aiming to help students develop critical thinking and creative problem solving skills	
	Science Associate & Tutor , Swarthmore College	2009 - 2010
	... Directed weekly large-group study sessions for an introductory course in astronomy; tutored students in courses in mechanics and E&M	
WORK EXPERIENCE	IT Manager , Virtual Planet Laboratory @ UW	2013 -
	... Manage VPL's virtual conferencing system and network	
LEADERSHIP	Head Coach , St. Luke's School	2010 - 2012
	... Head coach of the JV Boys Soccer and Fencing Teams	
	... Assistant coach of the MS Tennis Team	
	Captain , Swarthmore College Fencing Team	2009 - 2010
	... Captain and founding member of the Sabre Team	