

# Curriculum Vitae

## Personal Data

Justin Michael Garland  
2015 Kensington Drive,  
Hampton, VA 23663 United States

Tel.: +1 850-902-7504  
E-Mail: planetary@garland.run

Born July 18th, 1994

## Professional/Work History

- 2017 - Present Graduate Student; Planetary Science,  
Hampton University  
Jupiter cloud morphology and dynamics. Advisor: Dr. Kunio Sayanagi
- 2013 - 2017 Undergraduate Research Assistant; Planetary Science,  
University of Central Florida  
Hot Jupiter exoplanet data analysis. Advisor: Dr. Joseph Harrington

## University Education

- Degree Ph.D Planetary Science
- In Progress Hampton University
- Degree BS Physics - Astronomy, Minors in Computer Science and Science Education
- 8/2012 - 5/2017 University of Central Florida

## Conference Participation

- 2017 J. J. Blalock, K. M. Sayanagi, A. P. Ingersoll, U. A. Dyudina, S. Ewald, R. M. McCabe, J. Gunnarson, **J. Garland**, and A. Gallego. Dynamics and Morphology of Saturn's North Polar Region During Cassini's Final Year. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 49 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 205.11, October 2017
- J. Garland**, K. M. Sayanagi, J. J. Blalock, J. Gunnarson, R. M. McCabe, A. Gallego, C. Hansen, and G. S. Orton. Comparison of the Cloud Morphology Spatial Structure Between Jupiter and Saturn Using JunoCam and Cassini ISS. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 49 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 118.01, October 2017
- J. L. Gunnarson, K. M. Sayanagi, J. J. Blalock, A. Gallego, A. P. Ingersoll, U. A. Dyudina, S. Ewald, R. M. McCabe, and **J. Garland**. Dynamics and Characteristics of Saturn's Ribbon Wave Using Cassini Images. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 49 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 115.27, October 2017
- 2016 A. S. Foster, J. Harrington, P. Cubillos, J. Bleic, R. Challener, A. J. Foster, and **J. Garland**. Atmospheric, Orbital and Secondary Eclipse Analysis of HAT-P-30-WASP-51b. In *American Astronomical Society Meeting Abstracts*, volume 227 of *American Astronomical Society Meeting Abstracts*, page 212.05, January 2016
- E. DeLarme, J. Harrington, P. Cubillos, J. Bleic, A. S. D. Foster, **J. Garland**, A. J. Foster, and A. Cameron. Analysis of Secondary Eclipse Observations of Hot-Jupiters WASP-26b and CoRoT-1b. In *American Astronomical Society Meeting Abstracts*, volume 227 of *American Astronomical Society Meeting Abstracts*, page 212.04, January 2016
- J. Garland**, J. Harrington, P. Cubillos, J. Bleic, A. S. Foster, O. Bowman, and P. F. L. Maxted. Secondary Eclipse Observations and Orbital Analysis of WASP-32b. In *American Astronomical Society Meeting Abstracts*, volume 227 of *American Astronomical Society Meeting Abstracts*, page 212.06, January 2016
- J. Garland**, J. Harrington, P. Cubillos, J. Bleic, A. S. D. Foster, M. O. Bowman, and P. F. L. Maxted. Spitzer Secondary Eclipses of WASP-32b. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 48 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 122.11, October 2016

- J. Harrington, R. Challener, E. DeLarme, P. Cubillos, J. Blecic, A. Foster, and **J. Garland**. Tests of Exoplanet Atmospheric Radiative Transfer Codes. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 48 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 212.05, October 2016
- R. Challener, J. Harrington, P. Cubillos, **J. Garland**, A. S. D. Foster, J. Blecic, A. J. Foster, and B. Smalley. Constraining the atmosphere of exoplanet WASP-34b. In *American Astronomical Society Meeting Abstracts*, volume 227 of *American Astronomical Society Meeting Abstracts*, page 212.03, January 2016
- 2015 A. S. D. Foster, J. Harrington, P. Cubillos, J. Blecic, A. J. Foster, R. Challener, and **J. Garland**. Atmospheric, Orbital and Eclipse Depth Analysis of the Hot Jupiter HAT-P-30-WASP-51b. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 47 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 416.06, November 2015
- E. DeLarme, J. Harrington, P. Cubillos, J. Blecic, A. S. D. Foster, **J. Garland**, A. Foster, and A. Collier Cameron. Spitzer Secondary Eclipse Observations of Hot-Jupiters WASP-26b and CoRoT-1b. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 47 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 416.02, November 2015
- J. Garland**, J. Harrington, P. E. Cubillos, J. Blecic, A. S. Foster, O. Bowman, and P. F. L. Maxted. Observation and Analysis of Secondary Eclipses of WASP-32b. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 47 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 416.04, November 2015
- R. C. Challener, J. Harrington, P. Cubillos, **J. Garland**, A. S. D. Foster, J. Blecic, A. Foster, and B. Smalley. Secondary eclipse observations and the atmosphere of exoplanet WASP-34b. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 47 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 416.05, November 2015
- E. DeLarme, J. Harrington, P. Cubillos, A. S. D. Foster, **J. Garland**, M. Stemm, J. Blecic, A. Cameron, and T. J. Loredo. Secondary Eclipse Observations of the Hot-Jupiter WASP-26b. In *American Astronomical Society Meeting Abstracts*, volume 225 of *American Astronomical Society Meeting Abstracts*, page 257.13, January 2015
- R. Challener, J. Harrington, **J. Garland**, P. Cubillos, J. Blecic, and B. Smalley. Analysis of Secondary Eclipse Observations of Exoplanet WASP-34b. In *American Astronomical Society Meeting Abstracts*, volume 225 of *American Astronomical Society Meeting Abstracts*, page 257.06, January 2015
- 2014 A. S. D. Foster, J. Harrington, P. Cubillos, and **J. Garland**. Secondary Eclipse Observations of the Hot-Jupiter HAT-P-30-WASP-51b. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 46 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 210.14, November 2014
- J. Garland**, J. Harrington, P. Cubillos, J. Blecic, A. S. D. Foster, M. O. Bowman, and P. F. L. Maxted. Observation and Analysis of Secondary Eclipses of WASP-32b. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 46 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 210.12, November 2014
- R. Challener, J. Harrington, **J. Garland**, P. Cubillos, J. Blecic, and B. Smalley. Analysis of Secondary Eclipse Observations of Exoplanet WASP-34b. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 46 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 210.13, November 2014

## Software and Programming

Python	Numpy/Scipy, Matplotlib, Multiprocessing
Other Languages	IDL, C, C#, Java, Javascript
O.S.	Linux, Windows (XP, 7, 8, 10)
Software	USGS Integrated Software for Imagers and Spectrometers (ISIS3) Bayesian Atmospheric Radiative Transfer (BART) Pipeline

Hampton, VA, 28 January 2018