

Kyle J. Van Gorkom

CONTACT	Space Telescope Science Institute 3700 San Martin Dr Baltimore, MD 21218	phone: (410) 338-4491 email: kgorkom@stsci.edu web: www.stsci.edu/~kgorkom
EDUCATION	B.S. in Physics and Philosophy Mathematics minor, highest honors, <i>summa cum laude</i> , GPA 3.92 "Investigating Optical Continuum Flux as a Measure of Quasar Central Engine Power"	Brandeis University May 2014
RESEARCH POSITIONS	Space Telescope Science Institute <i>Research and Instrument Analyst II</i> <i>Research and Instrument Analyst I</i> Instruments Division, Telescopes Group	2015- 2014-2015
	<ul style="list-style-type: none">• Phase retrieval for Hubble focus maintenance. PI of the <i>HST Cycle 24 Focus & Optical Monitor</i> calibration program.• Pipeline development, analysis, and data collection support of Center of Curvature interferometry of the Webb primary• Point-spread function simulations and algorithm development for the Webb coronagraphy pipeline and exposure time calculator• Exoplanet simulations to quantify and reduce planet-planet confusion for direct imaging missions	
	Brandeis Radio Astronomy Group <i>Undergraduate Research Assistant</i>	2012-2014
	Investigated the robustness of optical continuum flux as a measure of quasar central engine power as part of an ongoing project aimed at placing constraints on quasar jet orientation	
	University of Michigan, Ann Arbor <i>REU Intern</i>	Summer 2013
	<ul style="list-style-type: none">• Satellite dynamics modeling in the development of the Miniature Tether Electrodynamics Experiment (MiTEE).• Numerically characterized the on-orbit behaviors of a coupled cubesat, femtosat, and non-rigid conducting tether by use of existing and new code.	
HONORS AND AWARDS	Phi Beta Kappa Physics Faculty Prize Cariana Prize in Philosophy	2014 2014 2012
TEACHING EXPERIENCE	Brandeis University Teaching Assistant for <i>Introductory Astronomy</i>	Fall 2013
SKILLS	Python, MATLAB, Mathematica, LabVIEW, L ^A T _E X, Java, IDL, IRAF	
EXTRA-CURRICULARS	Vice President, Astronomy Club, Brandeis University	

PUBLICATIONS

B. Saif, **K. J. Van Gorkom**, M. Bluth, D. Chaney, K. Smith, P. Greenfield, R. Keski-Kuha, L. Feinberg, M. North-Morris, & J. C. Wyant, *Picometer Dynamics of Reflective Surfaces* (in prep)

K. J. Van Gorkom & C. Stark, *Quantifying Confusion in the Hunt for ExoEarths* (in prep)

C. Stark, **K. J. Van Gorkom**, & L. Pueyo, JWST-STScI-004707, November 2015. *How to Implement a JWST Coronagraphic Observation Sequence in APT*

C. Stark & **K. J. Van Gorkom**, JWST-STScI-004706, November 2015. *An APT Implementation of the JWST Coronagraph SODRM*

K. J. Van Gorkom, J. F. C. Wardle, A. P. Rauch, & D. B. Gobeille, 2015. MNRAS 450, 424, *Comparing different indicators of quasar orientation*

PRESENTATIONS

K. J. Van Gorkom & C. Stark, High Contrast Imaging in Space Workshop, November 2016, *Quantifying Confusion in the Hunt for ExoEarths* (Contributed Talk)

K. J. Van Gorkom, L. Pueyo, C.-P. Lajoie, & the JWST Coronagraphs Working Group, 228th AAS, June 2016, *Improving JWST Coronagraphic Performance with Accurate Image Registration* (Contributed Poster)