Hodari-Sadiki James

Curriculum Vitae

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EDUCATION

Doctorate of Philosophy, Astronomy & Physics *Currently Enrolled*
Georgia State University, Atlanta, GA. *Expected Graduation 2022*

Current Project: "Age and Activity of Nearby K dwarfs"

Master of Science, Physics *Graduated May 2020*
Georgia State University, Atlanta, GA.

Master of Science, Biomedical Engineering *Graduated December 2014*
University of Cincinnati, Cincinnati, OH.

Master's Thesis: "Thermo-responsive Polymers for Cell-Based Therapeutic Applications"

Bachelor of Arts, Physics with a Minor in Biology *Graduated May 2012*
Berea College, Berea, KY.

Undergraduate Thesis: "Super Massive Black Hole Mass Determination"

RESEARCH INTERESTS

- Stellar Atmospheres
- Exoplanet Atmospheres
- Habitability of Exoplanets
- Astrobiology

EXPERIENCE

Research:

2017-Present — *Graduate Research Assistant, RECONS Group, Georgia State University.*
Current Project: Determination of K dwarf stellar properties, including metallicity, age, temperature, & activity, using high resolution (R=80,000) spectra.

Advisor: Todd Henry PhD

2017-Present — *CHIRON Data Manager, CTIO/SMARTS 1.5m.* Organize, process, and distribute all calibration and scientific data acquired using the CHIRON echelle spectrometer. CHIRON is mounted on the CTIO/SMARTS 1.5m telescope which is operational for upwards of 300 nights per year. Data from CHIRON has been used to publish at least 17 peer-reviewed articles since December 2017.

2012-2014	*Graduate Research Assistant, Vascular Tissue & Cellular Engineering Lab, University of Cincinnati.* Research on the *in vitro* production of intact human cell sheets for improvement of Diabetic Wound healing outcomes.

Teaching:

2017-Present	*Graduate Teaching Assistant, Department of Astronomy, Georgia State University.* Responsible for teaching a college laboratory class for students taking an introductory Astronomy course. Three sections were taught each semester, with each section meeting once per week.

SCHOLARSHIPS AND AWARDS

2017-Present	**Graduate Research Assistantship,** Astronomy & Physics Department, Georgia State University.
2020	**Graduate Student Scholarship,** Georgia State University Alumni Association.
2016	**Most Inspirational Alumnus Award 2016,** Berea College African Students Association.

PUBLICATIONS

Vanderspek, R., Huang, C. X., Vanderburg, A., Ricker, G. R., Latham, D. W., Seager, S., **James,H.S.**, et. al. 2019, TESS discovery of an ultra-short-period planet around the nearby M dwarf LHS 3844, The Astrophysical Journal Letters, 871(2), L24.

James, H. 2014, Thermo-Responsive Polymers for Cell-Based Therapeutic Applications, (Master's Thesis, University of Cincinnati)

R.L. Leonard, S.K. Gray, S.D. Albritton, L.N. Brothers, R.M. Cross, A.N. Eastes, H.Y. Hah, **H.S. James,** J.E. King, S.R. Mishra, and J.A. Johnson. "Rare Earth Doped Downshifting Glass Ceramics for Photovoltaic Applications." Journal of Non-Crystalline Solids 366 (2013): 1-5.

MEMBERSHIPS & SERVICE

2017-Present	Student Member, American Astronomical Society.
2015-2019	Volunteer Lecturer & Mentor, Freedom University, Atlanta, GA.
2015-2017	Membership Chairperson, Biomedical Engineering Society (BMES)

SELECTED REFERENCES

Tracy Hodge PhD
Associate Professor of Physics
Berea College

Tel : (859) 985-3301
Email : hodget@berea.edu

Todd Henry PhD
Distinguished University Professor of Astronomy
Georgia State University

Tel : (404) 413- 6054
Email : thenry@astro.gsu.edu