HODARI-SADIKI HUBBARD-JAMES

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Department of Physics and Astronomy, Agnes Scott College
141 E College Ave ◇ Decatur, GA 30030

RESEARCH INTERESTS

Stellar Astrophysics, Stellar Spectroscopy, Ages & Properties of Late Type Stars, and Astrobiology

ACADEMIC APPOINTMENTS

Assistant Professor of Astronomy — *July 2023- Present*
Agnes Scott College — Decatur, GA

Co-Director — *July 2024- Present*
Bradley Observatory at Agnes Scott College — Decatur, GA

EDUCATION

Ph.D. in Astronomy — *2023*
Georgia State University — Atlanta, GA

Dissertation: Spectral Characterization of a Complete Equatorial Sample of 615 K Dwarfs

Advisor: Todd J. Henry

M.S. in Physics with Astronomy Concentration — *2020*
Georgia State University — Atlanta, GA

M.S. in Biomedical Engineering — *2014*
University of Cincinnati — Cincinnati, OH

B.A. in Physics minor Biology — *2012*
Berea College — Berea, KY

RELATED WORK EXPERIENCE

Research Advisor, STEM Scholars Program — *Jan 2024- Present*
Agnes Scott College — Decatur, GA

CHIRON Data Manager, CTIO/SMARTS 1.5m — *Dec 2018 - June 2023*
Georgia State University — Atlanta, GA

Graduate Teaching/Research Assistant — *Aug 2017 - June 2023*
Georgia State University — Atlanta, GA

GRE and SAT Instructor — *Jan 2019 -Jan 2020*
University of Georgia/Educational Testing Consultants — Athens, GA

Lab Technologist — *Mar 2017 - Aug 2017*
Labsolutions — Atlanta, GA

Biomedical Engineer — *Mar 2015 - Dec 2016*
Castle Medical — Smyrna, GA

Graduate Teaching/Research Assistant — *Aug 2012 - Dec 2014*
University of Cincinnati — Cincinnati, OH

Physics Teaching Assistant *Aug 2009 - May 2012*
Berea College Berea,KY

GRANTS, SCHOLARSHIPS AND AWARDS

Professional Development (PDC) Award ($4,000) 2023-2024
Agnes Scott College

SREB Dissertation Year Award ($20,000) 2022-2023
Southern Regional Education Board

Provost's Dissertation Fellowship ($15,000) 2022-2023
Georgia State University

Beth Brown Memorial Award (Honorable Mention) Nov. 2022
National Society of Black Physicists (NSBP)

Chambliss Astronomy Achievement Award at AAS 240 Jun. 2022
American Astronomical Society

Graduate Student Scholarship 2020
Georgia State University Alumni Association

Most Inspirational Alumnus Award 2016
Berea College African Students Association

University of Cincinnati SEED Grant recipient 2014
University of Cincinnati

Waldemar Noll Prize in Physics 2012
Berea College

REFEREED PUBLICATIONS * * ORCID:0000-0003-4568-2079

1. The Solar Neighborhood L: Spectroscopic Discovery of K Dwarfs Younger than 1 Gyr and New Binaries within 30 Parsecs
Hubbard-James, H.-S., Lesley, D.X., Henry, T.J., et al., 2022, AJ 164 174.**
2. Mind the Gap. I. Hα Activity of M Dwarfs Near the Partially/Fully Convective Boundary and a New Hα Emission Deficiency Zone on the Main Sequence
Jao, W.-C., Henry, T. J., White, R. J., ... **Hubbard-James, H.-S.**, et al., 2023, AJ, 166, 63.
3. Visual Orbits of Spectroscopic Binaries with the CHARA Array. IV. HD 61859, HD 89822, HD 109510, and HD 191692
Lester K. V., Schaefer G. H., ... **Hubbard-James, H.-S.**, et al., 2022, AJ, 164, 228.
4. The Solar Neighborhood XLVIII: Nine Giant Planets Orbiting Nearby K Dwarfs, and the CHIRON Spectrograph's Radial Velocity Performance
Paredes L. A., Henry T. J., Quinn S. N., Gies D. R., Hinojosa-Goñi R., **James H.-S.**, Jao W.-C., et al., 2021, AJ, 162, 176.
5. Mapping out the Stellar Populations of IC 2602 and IC 2391
Nisak, A.H., White, R.J., Yep, A., ... **James, H.-S.**, et al., 2022, AJ, 163, 278.
6. TOI 564 b and TOI 905 b: Grazing and Fully Transiting Hot Jupiters Discovered by TESS
Davis A. B., Wang S., Jones M., Eastman J. D., ... **James, H.-S.**, et al., 2020, AJ, 160, 229.

Variations of my name in literature include: James, H.S., James, H-S, Hodari-Sadiki, J., and **Hubbard-James, H.-S.

7. TOI 694b and TIC 220568520b: Two Low-mass Companions near the Hydrogen-burning Mass Limit Orbiting Sun-like Stars
Mireles I., Shporer A., Grieves N., Zhou G. ... **James, H.-S.**, et al., 2020, AJ, 160, 133.

8. KELT-25 b and KELT-26 b: A Hot Jupiter and a Substellar Companion Transiting Young A Stars Observed by TESS
Rodríguez Martínez R., Gaudi B. S., ... **James, H.-S.**, et al., 2020, AJ, 160, 111.

9. A Well-aligned Orbit for the 45 Myr-old Transiting Neptune DS Tuc Ab
Zhou G., Winn J. N., Newton E. R., Quinn S. N., ... **James, H.-S.**, et al., 2020, ApJL, 892, L21.

10. TESS Spots a Hot Jupiter with an Inner Transiting Neptune
Huang C. X., Quinn S. N., Vanderburg A., ... **James, H.-S.**, et al., 2020, ApJL, 892, L7.

11. MASCARA-4 b/bRing-1 b: A retrograde hot Jupiter around a bright A-type star
Dorval P., Talens G. J. J., Otten G. P. P. L., ... **James, H.-S.**, et al., 2020, A&A, 635, A60.

12. TESS discovery of an ultra-short-period planet around the nearby M dwarf LHS 3844
Vanderspek R., Huang C. X., Vanderburg A., Ricker G. R., Latham D. W., Seager S., Winn J. N., ... **James, H.-S.**, et al., 2019, ApJL, 871, L24.

13. HD2685 b: A Hot-Jupiter orbiting an early F-type star detected by TESS
Jones M. I., Brahm R., Espinoza N., Wang S., ... **James, H.-S.**, et al., 2019, A&A, 625, A16.

14. HD 202772A b: A Transiting Hot Jupiter around a Bright, Mildly Evolved Star in a Visual Binary Discovered by TESS
Wang S., Jones M., Shporer A., Fulton B. J., ... **James, H.-S.**, et al., 2019, AJ, 157, 51.

15. Rare earth doped downshifting glass ceramics for photovoltaic applications
Leonard, R.L., Gray, S.K., **James, H.-S.**, et al., 2013, Journal of non-crystalline solids, 366, pp.1-5.

NON-REFEREED ABSTRACTS AND CONFERENCE PROCEEDINGS

1. Spectral Characterization of a Complete Equatorial Sample of 615 K Dwarfs
Hubbard-James, H., Gaxiola, S., Henry, T., Lesley, D.X., Paredes, L. A., Nisak, A., 2024, Poster presentation, 32nd General Assembly International Union (IAUGA 2024).

2. Spectral Characterization of a Complete Equatorial Sample of 615 K Dwarfs
Hubbard-James, H., Gaxiola, S., Henry, T., Lesley, D.X., Paredes, L. A., Nisak, A., 2024, Oral presentation, 2024 Astrobiology Science Conference (AbSciCon 2024).

3. Spectral Characterization of a Complete Equatorial Sample of 665 K Dwarfs within 33 Parsecs — Active Stars, Calm Stars, and the Best Places for Habitable Worlds
Hubbard-James, H., 2023, Oral presentation, American Astronomical Society 242nd Meeting.

4. Spectroscopic Identification of Young and Active K Dwarfs Within 25 Parsecs
Hubbard-James, H., Lesley, D.X., Henry, T.J., Paredes, L. A., Nisak, A., 2022, Poster presentation, American Astronomical Society 240th Meeting Abstracts.

5. A Kinematic and Spectroscopic Analysis of the Nearest K Dwarfs
Lesley, D.X., **Hubbard-James, H.**, Henry, T.J., Paredes, L. A., Nisak, A., 2022, Oral presentation, American Astronomical Society 240th Meeting Abstracts.

6. Spectroscopic Identification of Young and Active K Dwarfs Within 25 Parsecs
Hubbard-James, H., Lesley, D.X., Henry, T.J., Paredes, L. A., Nisak, A., 2022, Oral presentation, 2022 Astrobiology Science Conference (AbSciCon 2022).

7. Spectroscopic Identification of Five K Dwarfs Younger than 1 GYR Within 30 parsecs
Hubbard-James, H., Lesley, D.X., Henry, T.J., 2021, Oral presentation, 2021 National Society of Black Physicists Conference.

8. A Kinematic and Spectroscopic Analysis of the Nearest K Dwarf Stars
Lesley, D.X., **Hubbard-James, H.**, Henry, T.J., 2021, Oral presentation, 2021 National Society of Black Physicists Conference.

9. Solar System Realms: Stars Taking Up Space Where Planets Could Be
Henry, T. J., Jao, W., Paredes, L. A., Vrijmoet, E. H., **James, H.**, et al., 2021, In: American Astronomical Society Meeting Abstracts.

10. A Radial Velocity Survey of the Complete Sample of K Dwarfs within 25 Parsecs.
Paredes, L. A., Henry, T. J., Jao, W., **James, H.**, et al. In: American Astronomical Society Meeting Abstracts. Vol. 53. Jan. 2021, p. 332.02

TEACHING EXPERIENCE

Instructor of Record *Fall 2023- Present*
Agnes Scott College Decatur, GA

· AST 301: Astrophysics II: Dynamics *(Fall 2024)*

· PHY 400: Physics Capstone Colloquium *(Fall 2024)*

· PHY 420: Advanced Seminar in Physics & Astronomy *(Fall 2024)*

· AST 200L: Intermediate Observational Techniques *(Spring 2024)*

· PHY/MAT 231: Think Like a Data Scientist *(Spring 2024)*

· PHY 503L: Elements of Physics II Lab *(Spring 2024)*

· AST 300: Astrophysics I: Radiation *(Fall 2023)*

· PHY/MAT 131: Intro to Computer Programming *(Fall 2023)*

Joint Instructor *Spring 2022*
Georgia State University Atlanta, GA

· Co-Lecturer for a Synchronous (Online and In-Person Instruction) Introductory Astronomy Course ASTR 1000 (Introduction to the Universe)

Graduate Teaching Assistant *Aug 2017 - Jul 2021*
Georgia State University Atlanta, GA

· Instructor for Introductory Astronomy Lab ASTR 1010 (Astronomy of the Solar System)
Fall 2017, 2018, 2019, & 2020, Spring 2019, & 2021

· Instructor for Introductory Astronomy Lab ASTR 1020 (Stellar and Galactic Astronomy)
Fall 2020, Spring 2018, & 2020

GRE and SAT Instructor *Jan 2019 -Jan 2020*
Educational Testing Consultants/ University of Georgia Athens, GA

· Instructor for GRE Test Prep course at the University of Georgia
Spring 2019, & Summer 2019

· Instructor for SAT Test Prep course at the University of Georgia
Spring 2019, Summer 2019, & Fall 2020

Graduate Teaching Assistant *Aug 2012 - May 2014*
University of Cincinnati Cincinnati, OH

· Instructor for Biomedical Engineering Labs, Basic Electrical Circuits, & BME Senior Capstone I Fall 2012, & 2013, Spring 2013, & 2014

Lecturer *Fall 2013*
University of Cincinnati Cincinnati, OH

· Lecturer for a Basic Electrical Circuits course (BME 3071) in the Biomedical Engineering department at the University of Cincinnati.

SERVICE & OUTREACH

NCAA III - Faculty Athletics Representative (FAR) *Sept. 2024- Present*
Agnes Scott College

Co-Director Bradley Observatory July 2024 - Present
Agnes Scott College

Faculty Advisor, Agnes Scott College SPS Aug 2023 - Present
Agnes Scott College

Physics Faculty Search Committee Aug 2023 - May 2024
Agnes Scott College

Invited Talk: Planetary Science & Astrobiology Seminar Oct. 2024
Georgia Institute of Technology

Invited Talk: Dept Physics & Astronomy Colloquium June 2024
Georgia College & State University

CHIRON Data Manager Dec 2018 - June 2023
Georgia State University

Invited Talk at the Bradley Observatory Open House Dec. 2022
Agnes Scott College

Grad Life at Georgia State Panelist Aug 2022
Georgia State University

STEM Hands Summer Camp Jun 2022
Georgia Outreach Team for Space (GOT Space)

NASA Science Activation Planetary Reach Workshop Apr 2022
Arizona State University

Astronomy Curriculum Committee Member Sept 2021 - June 2023
Georgia State University

AstroPal Grad-Student Association Aug 2020 - June 2023
Georgia State University

Hard Labor Creek Observatory Open House Aug 2017 - Jan 2020
Georgia State University

Volunteer Lecturer & Mentor Aug 2015 - Aug 2019
Freedom University

MENTORING

Jacinda Byam - Undergraduate Student, Agnes Scott College.	May 2024 - Present
Daniela Garcia-Lara - Undergraduate Student, Agnes Scott College.	May 2024 - Present
Sebastian Carrazco Gaxiola - PhD Candidate, Georgia State University.	Aug 2022 - Present
Tim Johns - Graduate Student, Georgia State University.	May 2022 - July 2023
D. Xavier Lesley - Graduate Student, Ohio State University.	Jan 2021 - July 2023
Dan Johns - Graduate Student, Georgia State University.	Sep 2020 - May 2022
Andrey Brevett - Undergraduate Student, Berea College.	Aug 2018 - Aug 2022
Edgar Ortiz - High School Student, Freedom University.	Aug 2015 - Aug 2016
Chukwuemeka Chikelu - Graduate Student, University of Cincinnati.	Aug 2014 - Aug 2015

PROFESSIONAL AFFILIATIONS

Southern Regional Education Board (SREB)	Aug 2022 - Present
National Society of Black Physicists (NSBP)	Aug 2021 - Present
American Astronomical Society (AAS)	Oct 2017 - Present
Biomedical Engineering Society (BMES)	May 2015 - May 2017

TECHNICAL PROFICIENCY

Programming Language

- Expert: Python, Matlab, bash
- Intermediate Proficiency: IDL, R, HTML/CSS
- Limited Proficiency: C++, Julia

Software and Packages

- Astronomy: Astropy, IRAF/PyRAF, TOPCAT, DS9
- Telescope Operation: CTIO 1.5 telescope (computerized), CTIO 0.9 telescope (computerized), Multiple Tripod & Table Top Telescopes (manual)
- Others: LaTeX, MS Office, Git Repository