Caprice L. Phillips

Curriculum Vitae

The Ohio State University Department of Astronomy 140 W. 18th Ave McPherson Laboratory 4036 Columbus, OH, 43210 Email: phillips.1622@buckeyemail.osu.edu Phone: +1 (614)-702-7392

Website: capricephillips.github.io

EDUCATION

The Ohio State University

Columbus, OH

PhD Student

Expected 2024

The University of Texas at Austin

Austin, TX

M.A. Astronomy

Spring 2019

Thesis Title: 2M0443+3723 B: A Young Companion at the Substellar Boundary with Potential Membership in the β Pictoris Moving Group

University of Arkansas at Little Rock

Little Rock, AR

B.S. Physics; Minor: Mathematics

December 2015

RESEARCH EXPERIENCE

Graduate Student Researcher, Advisor: Dr. Ji Wang

Columbus, OH

Department of Astronomy, The Ohio State University

2019-Present

 \circ Investigating whether biosignatures on gas dwarfs are detectable with the MIRI LRS and NIRSpec instruments on the upcoming JWST mission

Graduate Student Researcher, Advisor: Dr. Brendan Bowler

Austin, TX

Department of Astronomy, The University of Texas at Austin

2017-2019

• Characterized the physical and empirical properties of a candidate benchmark brown dwarf companion in the 23 Myr Beta Pictoris Moving Group

Undergraduate Student Researcher, Advisor: Dr. Tony Hall

Little Rock, AR

Department of Physics & Astronomy, The University of Arkansas at Little Rock

2014-2015

o Performed a comparative study of meteorites & unknown samples for composition determination using Raman spectroscopy, petrography, and a chemical test for nickel

Undergraduate Student Researcher, Advisor: Dr. Alois Adams

Little Rock, AR

Department of Physics & Astronomy, The University of Arkansas at Little Rock

2014

• Investigated the probability of intelligent observers on confirmed exoplanets identifying Earth as a confirmed exoplanet through the transit method of detection

AWARDS AND HONORS

• ExoExplorers Program (ExoPAG Executive Committee/NASA Exoplanet Exploration Program)	2021
	2021
o 3 rd place BlackInPhysics 3MT competition	2020
o Inclusive Graduate Education Network Travel Award	2019
• LSSTC Data Science Fellowship (Large Synoptic Survey Telescope Corporation)	2018
o Dean's Strategic Fellowship (UT Austin)	2016
o Astronomy Graduate Excellence Fellowship (UT Austin)	2016
o Outstanding Senior Award (McNair Scholars Program)	2016

o Ronald E. McNair Scholars Program (UALR)	2014-2016
o College of Arts, Letters, and Sciences Ambassador (UALR)	2014-2015
• Friday Fellows Scholarship Program for Leadership and Service (UALR)	2012-2014
• Shepherd Poverty Studies Intern (UALR)	2013
o Just Communities of Arkansas Leadership for Social Justice Program (UALR)	2011

Observing Experience

Keck II, NIRC2, LGS, Mauna Kea Observatory, (P.I. B. Bowler)

LBT, MODS/LBC, Mount Graham International Observatory, (Queue Observing)

1 night
7 nights

REFERRED PUBLICATIONS

Phillips, C., Wang, Ji., Kendrew, S., Green, T., Hu, R., Valenti, J., Panero, W, Schulze, J, Detecting Biosignatures in the Atmospheres of Gas Dwarfs Planets with the James Webb Space Telescope, In Preparation

Phillips, C., Bowler, B., Mace, G., Liu, M., Sokal., K, 2020, The Astrophysical Journal, 896, 173, 2MASS J04435686+3723033 B: A Young Companion at the Substellar Boundary with Potential Membership in the β Pictoris Moving Group

INVITED TALKS

•	American Physical Society: "Quarks to Cosmos" Invited Speaker: Detecting Potential Biosignatures in Super-earth Atmospheres with JWST	Columbus,OH $April\ 2021$
•	Jet Propulsion Laboratory Exoplanet Lecture Series Invited Speaker: Detecting Potential Biosignatures in Super-Earth atmospheres with JWST	Columbus,OH March 2021
•	College of Charleston, Department of Physics and Astronomy Virtual colloquium talk: Detecting Potential Biosignatures in Super-earth Atmospheres with JWST	Columbus, OH October 2020
•	Dear Grad Student Podcast Invited guest on podcast discussing life as a graduate student and graduate school general experiences	Columbus,OH September 2020
•	Movement Consulting Invited speaker for discussion of unspoken rules of academia	Columbus,OH July 2020

Presentations

Detecting Biosignatures in the Atmospheres of Gas Dwarfs Planets with the James Webb Space Telescope, $ExoExplorers\ Science\ Series$, February 2021

Constraining Detection Limits for Potential Biosignatures in super-Earth Atmospheres with JWST (contributed talk), ExoPAG 23, January 2021, virtual due to COVID-19

Constraining Detection Limits for Potential Biosignatures in super-Earth Atmospheres with JWST (contributed talk), *National Society of Black Physicists*, November 2020, virtual due to COVID-19

Can We Detect Ammonia in the Atmospheres of super-Earths with the James Webb Space Telescope?, Black In Physics 3MT Competition, October 2020

2M0443+3723 B: A Young Companion at the Substellar Boundary with Potential Membership in the β Pictoris Moving Group (contributed talk), *National Society of Black Physicists*, November 2019, Providence, RI

Phillips, C., Bowler, B., Liu, Michael C., Mace, Gregory N., Sokal, Kimberly, American Astronomical Society Meeting Abstracts, 231, 349.04

Martinez, R, Bozek, B, Drew, P, Manning, S, **Phillips, C**, Equity & Inclusivity Efforts of the Department of Astronomy at The University of Texas at Austin, Women in Astronomy IV Conference, July 2017, Austin, TX

Dark Sky Project, UT Austin Graduate Student Postdoc Seminar, February 2017, Austin, TX

Phillips, C, Exploring Practical Methods for Identifying Potential Meteorites, *McNair Research Symposium*, September 2015, Little Rock, AR

Phillips, C, Earth as a Transiting Exoplanet, American Association of Physics Teachers Arkansas-Oklahoma-Kansas Section Meeting, September 2014, Arkadelphia, AR

Phillips, C, Earth as a Transiting Exoplanet, *McNair Heartland Research Conference*, September 2014, Kansas City, MO

Phillips, C, Earth as a Transiting Exoplanet, McNair Research Symposium, September 2014, Little Rock, AR

TEACHING EXPERIENCE

Teaching Assistant, ASTR 1141, "Life in the Universe"

Columbus, OH

Department of Astronomy, The Ohio State University

Fall 2020 & Spring 2021

- o Graduate TA for undergraduate course with focus on astrobiology and nature of life in the universe
- Teaching Assistant, ASTR 3350, "Astronomical Observation and Data Analysis" Columbus, OH

 Department of Astronomy, The Ohio State University

 Fall 2020
 - Graduate TA for undergraduate course with focus on modern astronomy with contemporary data analysis methods implemented in the Python programming language

Teaching Assistant, ASTR 309N, "Lives and Deaths of Stars"

Austin, TX

Department of Astronomy, The University of Texas at Austin

Spring 2019

- o Graduate TA for undergraduate course on supernovas, white dwarfs, neutron stars, and black holes
- Teaching Assistant, ASTR 321, "The Future of Humanity"

Austin, TX

Department of Astronomy, The University of Texas at Austin

Spring & Fall 2018

- Graduate TA for upper-division undergraduate writing astronomy course based on technological advancement. Graded and provided constructive feedback on written assignments
- Teaching Assistant, ASTR 309C, "Birth of Stars & Planets"

Austin, TX

Department of Astronomy, The University of Texas at Austin

Fall 2017

- o Graduate TA for undergraduate astronomy course focused on star & planet formation
- Teaching Assistant, ASTR 1301, "Introduction to Astronomy"

Little Rock, AR

Department of Physics & Astronomy, The University of Arkansas at Little Rock

Spring 2014 & Fall 2015

• Undergraduate TA for undergraduate introductory astronomy course

Teaching Assistant, PHYS 1122, "Elementary Physics II Laboratory"

Little Rock, AR

Department of Physics & Astronomy, The University of Arkansas at Little Rock

Spring 2015

 Undergraduate TA for laboratory physics section. Provided guidance and assistance to students conducting laboratory exercises

Lab Tutor, Student Support Services

Little Rock, AR

TRiO Programs, The University of Arkansas at Little Rock

2013-2014

 Tutored undergraduate students in calculus, college algebra, pre-core mathematics, and elementary physics

Advising & Mentoring

TAURUS Summer Research Program Informal graduate student mentor and developed imposter syndrome graduate student panel seminar OUTREACH AND SERVICE Girls in STEM Program: Sponsored by the Museum of Discovery Presenting a mentoring talk with girls aged 12-15 Girls in STEM Program: Sponsored by the Museum of Discovery Presenting a mentoring talk with girls aged 12-15 Mode Agession with JWST Instagram outreach for James Webb Space Telescope Westview High School Discussed with high school physics class about astronomy career Committee on the Status of Minorities in Astronomy AAS Panel Virtual Panetist for Anti-Blackness in Astronomy BlackInAstro Co-organizer of BlackInAstro week September 202 The Women+ of Color Project Volunteer statement of purpose reading/feedback for program attendees Colum Virtual panetist for undergraduate discussion: "How to be a Successful Student" Oct American Astronomical Society Journal Author Series Discussion of paper published by the American Astronomical Society Journals Women in Space Panel Live Q&A about astronomy careers for elementary, middle and high school students, wirtual panel Invited guest speaker: "Searching for biosignatures on super-Earths with JWST" Space Draft: Tucson's Flavor of Astronomy on Tap Invited speaker searching for biosignatures on super-Earths with JWST" Space Draft: Tucson's Flavor of Astronomy on Tap Invited speaker without latk with graduate students on the history of women in astronomy webinar series Invited for talk on croplanets and habitability for inclusive and accessible astronomy webinar series Invited for talk on croplanets and habitability for inclusive and accessible astronomy webinar series Invited for talk on croplanets and habitability for inclusive and accessible astronomy webinar series Invited for talk on croplanets and habitability for inclusive and accessible astronomy The Ohio State University Department of Astronomy Diversity Committee Graduate student representative Sequeia and Kings Canyon National Park Designed ceening prog		
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Capital of Texas Undergraduate Research Conference	Austin, TX April 2019	
Graduate student judge	Austin, TX 2018	Capital of Texas Undergraduate Research Conference Straduate student judge

• UT Austin Girls Days Festival STEM festival for over 8,600 K-8th grade girls with activities and demos	Austin, TX 2017, 2019
• Sleeping Bear Dunes National Lakeshore Developed astronomy demonstrations for inaugural Astronomy Day & star parties	Empire, MI Summer 2016
• Aviators Academy Led an after-school outreach program for 6-11 students focused on STEM activities	Little Rock, AR 2016
• Maria Mitchell Association Hosted weekly solar telescope viewing and directed astronomy summer camps for preK-8 th grader	Nantucket, MA Summer 2015
• Arkansas Children's Hospital Led science outreach programs for inpatients	Little Rock, AR 2015
• Maker-faire • Maintained STEM focused makers booth	th Little Rock, AR 2015
• Amazeum Tinkerfest One day STEAM oriented festival	Bentonville, AR 2014
Girls of Promise Led physics demos for 8th grade girls	Little Rock, AR 2014-2015
• Discover UALR Day Led physics demonstrations for prospective students	Little Rock, AR 2014-2015
• Code/Interactive Guided inner-city students through interactive astronomy lesson on two week outdoor excursion	Bronx, NY Summer 2013
Guiaea inner-city students through interactive astronomy lesson on two week outdoor excursion	Summer 2013

Programming Languages & Software

Python, LATEX

Professional Memberships

American Astronomical Society National Society of Black Physicists Junior Member Full Member