# Caprice L. Phillips

#### Curriculum Vitae

The Ohio State University Department of Astronomy 140 W. 18th Ave McPherson Laboratory 4036 Columbus, OH, 43210

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### EDUCATION

The Ohio State University

Columbus, OH

Ph.D. Astronomy

Expected 2024

The University of Texas at Austin

Austin, TX

M.A. Astronomy

May 2019

Thesis Title: 2M0443+3723 B: A Young Companion at the Substellar Boundary with Potential Membership in the  $\beta$  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

o Investigating whether biosignatures on gas dwarfs are detectable with the MIRI, NIRSpec, and NIRISS 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

• 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

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

## AWARDS AND HONORS

o Hayes Graduate Research Forum Selected Participant (OSU)	2021
o Two Sigma Diversity PhD Fellowship Finalist	2021
o ExoExplorers Program (ExoPAG Executive Committee/NASA Exoplanet Exploration Program)	2021
o 3 <sup>rd</sup> 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

• Astronomy Graduate Excellence Fellowship (UT Austin)	2016
o Outstanding Senior Award (McNair Scholars Program)	2016
o Ronald E. McNair Scholars Program (UALR)	2014-2016
• 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)

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

• An Inv	nerican Physical Society: "Quarks to Cosmos" ited Speaker: Detecting Potential Biosignatures in Gas Dwarf Atmospheres with JWST	Columbus,OH April 2021
ullet $Inv$	Propulsion Laboratory Exoplanet Journal Club Lecture Series ited Speaker: Detecting Potential Biosignatures in Gas Dwarf Atmospheres with JWST	Columbus,OH March 2021
• Co	llege of Charleston, Department of Physics and Astronomy tual colloquium talk: Detecting Potential Biosignatures in Super-earth Atmospheres with JWST	Columbus, OH October 2020
•	ar Grad Student Podcast ited guest on podcast discussing life as a graduate student and graduate school general experiences	Columbus,OH September 2020
	ovement Consulting ited speaker for discussion of unspoken rules of academia	Columbus,OH  July 2020

## Presentations

Detecting Biosignatures in the Atmospheres of Gas Dwarf Planets with the James Webb Space Telescope, Edward F. Hayes Graduate Research Forum, April 2021

Detecting Biosignatures in the Atmospheres of Gas Dwarfs Planets with the James Webb Space Telescope, Two Sigma Diversity PhD Finalist Reception, March 2021

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  $\beta$  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

# Academic Facilitator, URSA Program Polaris Program. The Ohio State University

Columbus, OH

March 2021-Present

 $\circ$  Creating and implementing physics and astronomy curriculum, along with teaching and leading discussions during daily courses focused on exoplanets for incoming underrepresented first-year undergraduates to OSU

#### 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
  - o 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

o 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"

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

• Undergraduate TA for undergraduate introductory astronomy course

Little Rock, AR Spring 2014 & Fall 2015

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

Little Rock, AR

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

Spring 2015

 $\circ$  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

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

## Advising & Mentoring

#### The SciAccess Zenith Mentorship Program

Columbus, OH

Informal graduate student mentor for high school student in Space Science Mentoring Program

Fall 2020

#### TAURUS Summer Research Program

Austin, TX

 $In formal\ graduate\ student\ mentor\ and\ developed\ imposter\ syndrome\ graduate\ student\ panel\ seminar$ 

2017-2018

### Professional Service

#### Executive Secretary

NASA UVOIR: SubO-Exoplanet Panel

#### BlackInAstro

Lead co-organizer of BlackInAstro on Twitter @BlackInAstro

 $September\ 2020\text{-}Present$ 

## Press/Media Coverage

o 'Twinkle' satellite to scan for potentially habitable worlds (Link)

2021

## OUTREACH

• StriveHigher Inc  Virtual story time reading on Mars for under-served K-5 <sup>th</sup> graders in NYC	Columbus,OH March 2021
• Girls in STEM Program: Sponsored by the Museum of Discovery  *Presenting a mentoring talk with girls aged 12-15**	Columbus,OH March 2021
• Q&A Session with JWST  Instagram outreach for James Webb Space Telescope	Columbus, OH February 2021
• Westview High School  Discussed with high school physics class about astronomy career	Columbus,OH February 2021
• Committee on the Status of Minorities in Astronomy AAS Panel Virtual Panelist for Anti-Blackness in Astronomy	Columbus,OH January 2021
The Women+ of Color Project  Volunteer statement of purpose reading/feedback for program attendees	Columbus,OH October 2020
BlackInPhysics Panel  Virtual panelist for undergraduate discussion: "How to be a Successful Student"	Columbus, OH October 2020

American Astronomical Society Journal Author Series    Discussion of paper published by the American Astronomical Society Journals   Voormen in Space Panel			
Live Q&A about astronomy curvers for elementary, middle and high school students, wirtual panel OSU Students for the Exploration and Development of Space Invited guest speaker: "Searthing for biosignatures on squer-Earths with JWST" Space Draft: Tucson's Flavor of Astronomy on Tap Invited speaker: Virtual public talk: "Super-Earths to Brown Dwarfs: Mysterious In between Objects"  Making Space for All Webinar Series Insited for talk on exoplanets and habitability for inclusive and accessible astronomy webinar series The Columbus Astronomical Society Presented a virtual talk with graduate students on the history of women in astronomy The Ohio State University Department of Astronomy Diversity Committee Graduate student representative Sequoia and Kings Canyon National Park Designed evening program on natural skies & pop-up activities on natural skies & natural sounds UT Austin College of Natural Sciences Presented a poster on Black Women in Astronomy for the Black Excellence in STEM Pestival Astronomy Students Association Invited speaker: A Young Comparison at the Substellar Boundary with Potential Membership in the BPMG April 2019 UT Austin Girls Days Festival STEM festival for over 8,600 K-8th grade girls with activities and demos Sleeping Bear Dunes National Lakeshore Developed astronomy demonstrations for imaganal Astronomy Day & star parties Aviators Academy Led an after school outreach program for 6-11 students focused on STEM activities Maria Mitchell Association Hosted weekly solar telescope viewing and directed astronomy summer camps for preK-8th grader Arkansas Children's Hospital Led science advanch programs for impatients Maintaned STEM focused makers booth Annaceum Tinkerfest Maintaned STEM focused makers booth Annaceum Tinkerfest One day STEAM oriented festival  Girls of Promise Led physics demonstrations for prospective students  Eatle Rock, AR 2014-2015 Code/Interactive Bronx, NY	•		*
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# Programming Languages & Software

Python, LATEX

# Professional Memberships

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