Caprice L. Phillips

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RESEARCH INTERESTS

Brown dwarf and exoplanet atmospheric characterization; direct imaging techniques; high resolution spectroscopy of substellar objects; stellar abundance measurements; Planetary formation exploration through atmospheric characterization and retrievals of brown dwarfs and directly imaged exoplanets; cloud properties of substellar objects; detecting biosignatures; habitability of temperature exoplanets.

EDUCATION

The Ohio State University

Columbus, OH

Ph.D. Astronomy

M.S. Astronomy

Expected 2025
August 2022

Thesis Topic: Searching for Biosignatures in the Atmospheres of Gas Dwarf Planets

Graduate Certificate In College and University Teaching — College of Education and Human Ecology (Expected May 2025)

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 β Pictoris Moving Group

University of Arkansas at Little Rock

Little Rock, AR

B.S. Physics; Minor: Mathematics

December 2015

APPOINTMENTS

Research Analyst, Advisor: Dr. Megan Bedell

New York, NY

Flatiron Institute, Center for Computational Astrophysics

January 2024 - August 2024

o Using iSpec and Korg to determine stellar parameters and abundance measurement for FGK host stars of benchmark brown dwarf companions

Graduate Student Researcher & Visiting Scientist, Advisor: Dr. Jackie Faherty

The Ohio State University & American Museum of Natural History

January 2022 – present

 \circ Exploring atmospheric properties of substellar companions to probe planetary formation mechanisms \circ Using Brewster to robustly decouple temperature, gravity, composition, and cloud properties for planetary mass companions

Graduate Student Researcher, Advisor: Dr. Ji Wang

Columbus, OH

Department of Astronomy, The Ohio State University

January 2022 – present

• Exploring atmospheric properties and formation histories of intermediate-mass brown dwarfs with a combination of low and medium resolution data sets

Graduate Student Researcher, Advisor: Dr. Ji Wang

Columbus, OH

Department of Astronomy, The Ohio State University

September 2019 – January 2022

o Investigated whether biosignatures on gas dwarfs are detectable with the MIRI, NIRSpec, and NIRISS instruments aboard *JWST* mission o Investigated whether biosignatures on temperate gas dwarfs/terrestrial-like planets are detectable with the upcoming *Twinkle* space mission o Determined suitable targets for observations for *Twinkle* and *JWST*

Graduate Student Researcher, Advisor: Dr. Brendan Bowler

Austin, TX

Department of Astronomy, The University of Texas at Austin

January 2017 – May 2019

 \circ Characterized the physical and empirical properties of a candidate benchmark brown dwarf companion in the β Pictoris Moving Group

PUBLICATIONS

FIRST AND SECOND AUTHOR:

- 4. **Phillips, C.**, Faherty, J., Burningham, B., Vos, J., Gonzales, E., et al, *Retrieving Young Cloudy L-Dwarfs: A Nearby Planetary-Mass Companion BD+60 1417B and Its Isolated Red Twin W0047*, in prep
- 3. **Phillips, C.**, Wang, J., Edwards, B., Rodriguez Martinez, R., Pai Asnodkar, A., BS, Gaudi, MNRAS, *Exploring the Potential of Twinkle to Unveil the Nature of LTT 1445 Ab*
- 2. **Phillips, C.**, Wang, J., Kendrew, S., Greene, T., Hu, R., Valenti, J., Panero., W, Schulze, J, 2021, The Astrophysical Journal, 923,144. *Detecting Biosignatures in the Atmospheres of Gas Dwarfs Planets with the James Webb Space Telescope*
- 1. **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

OTHER CO-AUTHOR:

- 8. Xuan, J., Wang, J., Finnerty. L., et al., incl **Phillips, C**, *Validation of elemental and isotopic abundances in late-M spectral types with the benchmark HIP 55507 AB system*
- 7. Costes. J.C, Xuan. J., et al., incl Phillips,C., A Fresh View at the Hot Cloudy Brown Dwarf HD 984B through High-resolution Spectroscopy, accepted
- 6. 2030STEM Collaboration, Adams J., Asai, MD, Cohen, R., et al., incl **Phillips, C**, 2023, Accelerating and scaling mentoring strategies to build infrastructure that supports underrepresented groups in STEM
- 5. Finnerty, L., Scholfield, T., Sappey, B. et al., incl **Phillips, C**, 2023, *Keck/KPIC Emission Spectroscopy of WASP-33b*
- 4. Echeverri, D., Xuan, J., Jovanovic., incl Phillips, C, 2023, Vortex Fiber Nulling for Exoplanet Observations II: Implementation and First Light
- 3. Xin, Y, Xuan, J, Mawet, D,. et al., incl Phillips, C, 2023, On-sky speckle nulling through a single-mode fiber with the Keck Planet Imager and Characterizer
- 2. Edwards, B,. Changeat, Q., Tsiaras, A., incl Phililps, C., 2023, Characterising a World Within the Hot Neptune Desert: Transit Observations of LTT 9779 b with HST WFC3
- 1. Stotesbury, I., Edwards, B., ABB, et al., incl Phillips, C, 2022, Twinkle a small satellite spectroscopy mission for the next phase of exoplanet science

GRANTS & DISTINCTIONS

• The Edward J. Ray Travel Award for Scholarship and Service (\$1000)	2024
• IGEN Travel Grant (\$1000)	2023
• University of California Santa Cruz Other Worlds Laboratory Mini Grant (\$3150)	2023
• AAS International Travel Grant (\$1900)	2022
• Underrepresented Minority Communities in Planetary Science Travel Grant (\$2200)	2022
ullet Forming and Exploring Habitable Worlds Bursary Award (£500)	2022
• Sigma Xi Grant-In-Aid of Research (\$3426)	2022

• AAS FAMOUS Travel Grant (\$1000)	2022
• Two Sigma Diversity PhD Research Grant (\$2000)	2021
• Inclusive Graduate Education Network Travel Award	2019

PROFESSIONAL SERVICE GRANTS

- \rightarrow **Heising-Simons Foundation Grant (\$100,000, PI)** #BlackSpaceWeek: A week dedicated to celebrating and amplifying Black scientists and engineers within the space community. Funding to support 2023 and 2024 #BlackSpaceWeek programming.
- \rightarrow The Ohio State University, College of Arts & Sciences Graduate Student Success Grant (\$2500, PI) Funding to support inaugural Black In Astro undergraduate research competition and travel grants to the American Astronomical Society conference

AWARDS & HONORS

 American Association of University Women American Dissertation Year Fellowship (\$25,000) CCA Pre-Doctoral Fellowship Program, Flatiron Institute Center for Computational Astrophysics 	2024 2024
• P.E.O. Scholar Award (\$20,000)	2023 - 2024
 College of Arts and Sciences Graduate Student Award for Diversity Enhancement 	2023
• Kavli Fellow	2023
 Royal Astronomical Society Annie Maunder Medal for Outreach to #BlackInAstro team 	2023
 Beth Brown Memorial Award for Best Oral Presentation (NSBP/AAS) 	2022
 Ann S. Tuttle Citizenship, Engagement, and Outreach Prize (OSU) 	2022
 Ford Foundation Predoctoral Fellowship – Honorable Mention 	2022
• 2 nd place BlackInX Interdisciplinary Twitter Research Poster Competition	2021
• Hayes Graduate Research Forum Mathematical and Physical Sciences -Third Place (OSU)	2021
• ExoExplorers Program (ExoPAG Executive Committee/NASA Exoplanet Exploration Program)	2021
• 3 rd place BlackInPhysics 3MT competition	2020
• LSSTC Data Science Fellowship (Large Synoptic Survey Telescope Corporation)	2018
• Dean's Strategic Fellowship (UT Austin)	2016
 Astronomy Graduate Excellence Fellowship (UT Austin) 	2016
 Outstanding Senior Award (McNair Scholars Program) 	2016
• Ronald E. McNair Scholars Program (UALR)	2014-2016

WORKSHOPS & SUMMER SCHOOLS

Open Problems in the Astrophysics of Gas-Giants (Puerto Natales, Patagonia, Chile)	December 2023
Other Worlds Laboratory Exoplanet Summer Program (UC Santa Cruz, Santa Cruz, CA)	Summer 2023
Cloud Academy III (Les Houches, France)	March 2023
Other Worlds Laboratory Exoplanet Summer Program (UC Santa Cruz, Santa Cruz, CA)	Summer 2022
NYC Gaia DR3 Fête (Flatiron Institute, NYC)	June 2022
International High Performance Computing Summer School (Athens, Greece)	June 2022

OBSERVING EXPERIENCE

Keck II, KPIC, Mauna Kea Observatory (remote observing)	1 night
LBT, MODS/LBC/PEPSI, Mount Graham International Observatory, (queue observing)	14 nights
Keck II, NIRC2, LGS, Mauna Kea Observatory, (P.I. B. Bowler)	1 night

TELESCOPE PROPOSALS

- → TESS Cycle 6 General Investigator Program: Albedo And Atmospheric Variability Of Hot Jupiters (Co-I, PI Anusha Pai Asnodkar, \$70,000)
- \rightarrow JWST Cycle 2 19.0 Hours, (Co-I, PI Ben Burningham), ID. #3670 Sinking silicates: tracing rainout across the LT transition
- → Large Binocular Telescope (PEPSI), Constraining the Abundances of Solar-Type (FGK) Host Stars of Brown Dwarfs in the Solar Neighborhood, 10 hours awarded (PI), 2023B
- → Large Binocular Telescope (PEPSI), Constraining the Abundances of Solar-Type (FGK) Host Stars of Brown Dwarfs in the Solar Neighborhood Pilot Study, 5 hours awarded (PI), 2023A

Seminars & Colloquia

University of Kansas Astronomy and Space Physics Seminar (webinar)	April 2024
University of Pittsburgh AstroLunch Seminar Series (Pittsburgh, PA)	October 2023
UK Centre for Astrobiology Earth, Life and Space Seminar Series (Edinburgh, United Kingdom)	July 2023
UC Berkeley Theoretical Astrophysics Center (TAC) Seminar Series (webinar)	April 2023
UC Santa Cruz PLUNCH Seminar (webinar)	March 2023
Case Western Reserve University Particle/Astro CERCA Seminar Series (webinar)	November 2022
NASA GSFC Exoplanet Seminar Series (webinar)	June 2022
University of Delaware Astro Seminar (webinar)	May 2022
CCA Astronomical Data Meeting (New York City, New York)	March 2022
University of Kansas Astronomy and Space Physics Seminar (webinar)	January 2022
STScI Exoplanet, Star, and Planet Formation Seminar Series (webinar)	January 2022
The Pennsylvania State University CEHW Astronomy Seminar (webinar)	November 2021
National Society of Black Physicists Innovate Seminar Series (webinar)	September 2021
American Physical Society: "Quarks to Cosmos" (webinar)	April 2021
NASA JPL Exoplanet Seminar (webinar)	March 2021
Exoplanet Explorers (ExoExplorers) Science Series (webinar)	February 2021
College of Charleston, Department of Physics and Astronomy Colloquium (webinar)	October 2020

RESEARCH TALKS (*INVITED)

*Substellar Formation: From Retrievals to Host Star Abundance Determination, *NBSP-Simons Scholars Program*, July 2024, New York, NY

Atmospheric Characterization of the Dusty Planetary-Mass Companion BD+60 1417B, Cool Stars Conference 22 – Splinter Session The Buddy System: Utilizing the Wealth of Host Star Data to Inform Substellar Physics, June 2024, San Diego, CA

Spectral Retrievals on Intermediate-Mass Brown Dwarfs, *American Astronomical Society, AAS Meeting #243*, January 2024, New Orleans, LA

Retrieving Young L-Dwarfs is Hard: A Look into an Approach with Low Resolution Ground Based Data with Brewster, *Other Worlds Laboratory Exoplanet Summer Program*, July 2023, UC Santa Cruz

- *Retrieving Young L-Dwarfs: A Holistic Approach with Low and High Resolution Data, *The University of Edinburgh, School of Physics and Astronomy*, July 2023, Edinburgh, UK
- *A Holistic Retrieval Approach for an Intermediate Mass Brown Dwarf: IRXS J2351+3127B, *University of Leicester, School of Physics and Astronomy*, July 2023, Leicester, UK
- *Astrobiology/JWST Session (Exoplanet Hunters: The Collaborative Search for the Expected Unexpected with JWST), National Academy of Sciences Kavli Frontiers in Science Symposium, March 2023, Irvine, California

The Atmospheric Retrieval of a Planetary-Mass Companion (contributed talk), *Great Lakes Exoplanet Area Meeting (GLEAM)*, November 2022, Columbus, Ohio

Is LTT 1445 Ab a Cold Haber World or a Hycean World?: An Exploration with Twinkle (contributed talk), *National Society of Black Physicists Meeting*, November 2022, Charlottesville, Virginia

Is LTT 1445 Ab a Cold Haber World or a Hycean World?: An Exploration with Twinkle (contributed talk), # 54th Division of Planetary Science Meeting, October 2022, London, Ontario

Is LTT 1445 Ab a Cold Haber World or a Hycean World?: An Exploration with Twinkle (contributed talk), *Other Worlds Laboratory Exoplanet Summer Program*, June 2022, UC Santa Cruz

Is LTT 1445 Ab a Cold Haber World or a Hycean World?: An Exploration with Twinkle (contributed talk), *Emerging Researchers in Exoplanet Science (ERES) Conference VII*, August 2022, Pennsylvania State University

*Detectability of Biosignatures in Temperate Gas Dwarfs with Twinkle (contributed talk), *Twinkle and the Next Generation of Exoplanet Scientists Conference*, September 2021

Detecting Biosignatures in the Atmospheres of Gas Dwarf Planets with the James Webb Space Telescope (contributed talk), *AbGradCon*, September 2021

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

Detecting Biosignatures in the Atmospheres of Gas Dwarf Planets with the James Webb Space Telescope (contributed talk), *Bay Area Exoplanet Meeting*, June 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

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

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

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

RESEARCH POSTERS

"A Deep Atmospheric Characterization of the Overlooked Red Planetary-Mass Companion BD+60 1417B" (Christchurch, New Zealand), Extreme Solar Systems V, March 2024

"A Comparative Study of Retrieval Codes and Atmospheric Forward Modeling Analysis to Understand the Intermediate Mass Brown Dwarf: 1RXS J2351+3127B" (Puerto Natales, Chile), *Open Problems in the Astrophysics of Gas Giants Conference*, December 2023

"A Holistic Retrieval Approach for an Intermediate Mass Brown Dwarf: 1RXS J2351+3127B" (University of Exeter, UK), ExoClimes VI, June 2023

"Retrieving Cloudy L-Dwarfs: A Nearby Planetary-Mass Companion BD+60 1417B and Its Red Twin W0047" (Les Houches, France), Cloud Academy III, March 2023

"Retrieval of the BD+60 1417B system: A nearby planetary-mass companion" (Seattle, Washington), American Astronomical Society, AAS Meeting #241, January 2023

"Is LTT 1445 Ab a Hycean World or a cold Haber World? Exploring the Potential of Twinkle to Unveil its Nature", Black In Physics Poster Session, October 2022

"Exploring the Lower Boundary of the Radius Valley with Twinkle: Studying Atmospheric Composition and

Detecting Biosignatures of a Terrestrial-like planet LTT 1445 Ab", *Forming and Exploring Habitable Worlds*, November 2022 (*virtual*)

"A Data Driven Approach to Unlocking Planet Formation: The Atmospheric Retrieval of the BD+60 1417 System" (Toulouse, France) - Cool Stars Conference, July 2022

"A Data Driven Approach to Unlocking Planet Formation: The Atmospheric Retrieval of the BD+60 1417 System" (Athens, Greece) - International High Performance Computing Summer School, June 2022

"Detecting Biosignatures in the Atmospheres of Gas Dwarf Planets with the James Webb Space Telescope" (Virtual) - BlackInX Conference, July 2021

"Characterizing a New Candidate Benchmark Brown Dwarf Companion in the β Pic Moving Group" (National Harbor, Maryland) - American Astronomical Society, AAS Meeting #231, January 2018

DEI & OUTREACH CONFERENCE CONTRIBUTIONS (*INVITED)

*Black In Astro: Building the Black Space Community through Social Platforms (New York, NY), .Astronomy 12 Conference, October 2023

*#AbolishQuals: Barriers to Success for Graduate Students of Color in Astronomy (Seattle, Washington), American Astronomical Society #241th Meeting - special session, January 2023

The ExoExplorers: Early-Career Perspectives on the Intersection of Exoplanet Science and DEIA in Astronomy (Seattle, Washington), American Astronomical Society $\#241^{\rm th}$ Meeting - special session, January 2023

The Impact of Grassroot Organizations: A Tale of the Retention through the Black Space Community (Ashley L. Walker, Phillips, C, Ronald S. Gamble Jr., Bryne Hadnott, KeShawn Ivory, Dakotah Tyler, Robert Washington III), (Seattle, Washington), American Astronomical Society #241th Meeting, iPoster, January 2023

Black In Astro: A Grassroots Organization to Celebrate and Amplify the Black Experience in Space-Related Fields (Columbus, Ohio), Great Lakes Exoplanet Area Meeting (GLEAM), November 2022

"Equity & Inclusivity Efforts of the Department of Astronomy at The University of Texas at Austin" (Austin, Texas) - Women in Astronomy IV Conference, July 2017

TEACHING APPOINTMENTS

Academic Facilitator, URSA Program

Columbus, OH

Polaris Program, The Ohio State University

Summer 2021 & Summer 2022

 \Rightarrow Created and implemented 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

⇒ Introductory 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

 \Rightarrow 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

⇒ 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

⇒ 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

⇒ Undergraduate astronomy course focused on star & planet formation

RESEARCH ADVISING

Phoenix-Avery Sarian - UC Santa Cruz Lamat Institute REU Program/OSU

Santa Cruz, CA

Co-advising with Anusha Pai Asnodkar | Project: Revisiting the Nature of 1RXS J2351+3127 B

July 2023 -

ADVISING & MENTORING

Ashley Walker

PhD student in Atmospheric Sciences at Howard University

2023 - present

Simons-NSBP Scholars Program

New York, NY

Graduate Fellow— informal mentor to undergraduate scholars

Summer 2022, Summer 2023

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

Informal graduate student mentor and developed imposter syndrome graduate student panel seminar

2017-2018

PROFESSIONAL SERVICE

American Astronomical Society 243rd Meeting

New Orleans, LA

Chambliss Judge

January 2024

Committee on the Status of Minorities in Astronomy (CSMA)

Selected committee board member to enhance the participation of underrepresented minorities in astronomy

2024 - 2027

Black In Astro

Vice-president of Black In Astro

2020 - Present

Executive Secretary

NASA Review Panel

2021,2022

Black In Physics

Documentation lead for Black In Physics Week

2021, 2022

The Ohio State University Department of Astronomy Diversity Committee

Graduate student representative

2019 - 2023

PRESS/MEDIA COVERAGE

2023
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Astrobites: Atmospheres of Small Planets Through a Big Telescope (Link) Popular Science Magazine Interview (Link) Exploring Potential Biosignatures with Twinkle (Link) 'Twinkle' satellite to scan for potentially habitable worlds (Link) Scientists May Detect Signs of Extraterrestrial Life in the Next 5 to 10 Years (Link) Astrobites: #BlackInAstro Experiences - Caprice Phillips (Link) AAS Journal Author Series (Youtube Video)	2021 2021 2021 2021 2021 2021 2020
Invited Outreach	
The Tartan Tardigrade Podcast Invited guest to discuss research in astrobiology, career, and the prospects for life in the universe	Edinburgh, UK July 2023
• California Academy of Sciences NightSchool: Looking Up Episode Invited guest to discuss detecting exoplanets and potential biosignatures in the era of JWST	Virtual <i>July 2023</i>
Panelist for Space Balls Monthly Movie Nights - Science Fiction vs Science Fact Invited panelist guest to discuss Space Balls movie and exoplanets	Virtual November 2022
Black In Science Podcast Guest on podcast about being Black In Astronomy	Virtual November 2022
Friends of Ohio State Astronomy and Astrophysics (FOSAA) event "Detecting Potential Biosignatures in the Atmospheres of Gas Dwarfs with JWST"	Virtual October 2021
Columbus School for Girls Speaker on research and journey in astronomy	Virtual April 2021
The Big Fib Podcast Podcast featuring stars & planets	Virtual June 2021
Science Around Cincy Invited Guest for YouTube series	Columbus,OH June 2021
• Dear Grad Student Podcast • Guest on podcast discussing graduate school general experiences	Virtual September 2020
• Space Draft: Tucson's Flavor of Astronomy on Tap Virtual public talk: "Super-Earths to Brown Dwarfs: Mysterious In-between Objects"	Virtual <i>July 2020</i>
• Making Space for All Webinar Series Talk on exoplanets and habitability for inclusive and accessible astronomy webinar series	Virtual <i>May 2020</i>
• Movement Consulting • Invited speaker for discussion of unspoken rules of academia	Virtual July 2020
Invited Panels	
CHANGES 2.0 ACTION PLAN Panelist for discussion about X in STEM groups	Virtual October 2023
Simons-NSBP Scholars Program Panelist for discussion about graduate school journey	Virtual July 2023
• Disney STRANGE WORLD Stem and Sci Fi Panel • Panelist on chat about the intersections between science fact and fiction	Virtual November 2022
American Geological Union Invited panelist for exoplanet science with JWST	Virtual October 2021
• APS Public Engagement Webinar Series • Invited panelist for talk on social media	Virtual July 2021

Committee on the Status of Minorities in Astronomy AAS Panel Columbus,OH Virtual Panelist for Anti-Blackness in Astronomy January 2021 **BlackInPhysics Panel** Columbus, OH Virtual panelist for undergraduate discussion: "How to be a Successful Student" October 2020 Women in Space Panel Virtual Live Q&A about astronomy careers for elementary, middle and high school students September 2020 SELECTED OUTREACH **Black In Astro Travel Grants** Developed and co-led evaluation for sponsored student travel grants November 2021 - Present The Women+ of Color Project Virtual Assisted with evaluating and selecting applicants for the program August 2023 Discover Black In Astro: The Impact of Citizen Astronomy Efforts Virtual Developed and co-moderated panel discussion for Black Space Week 2023 June 2023 Astro[sound]bites Podcast Virtual Podcast guest with Black In Astro team to discuss research and Black Space Week 2023 June 2023 Black In Astro Undergraduate Research Showcase Virtual Co-organized & co-moderated undergraduate research competition during Black Space Week 2023 June 2023 **Black Space Week Organizer** Virtual Developed and helped organize workshops and professional events June 2021 - Present Case Western University - Physics Underrepresented Minority Students Group Virtual Online Q&A for undergraduates and graduate students about graduate school journey and experiences October 2022 **Black In Astro Undergraduate Research Competition** Virtual Co-organized & moderated undergraduate research competition November 2021 StriveHigher Inc Virtual Women's Herstory month: meet an astrophysicist and astronomer March 2021 Girls in STEM Program: Sponsored by the Museum of Discovery Virtual Presented a mentoring talk with girls aged 12-15 March 2021 **Q**&A Session with JWST Virtual Instagram outreach for JWST February 2021 **Westview High School** Virtual Discussed with high school physics class about astronomy career February 2021 The Women+ of Color Project Virtual Volunteer statement of purpose reading/feedback for program attendees October 2020 The Columbus Astronomical Society Virtual Presented a virtual talk with graduate students on the history of women in astronomy March 2020 Sequoia and Kings Canyon National Park Mineral King, CA Designed evening program on natural skies & pop-up activities on natural skies & natural sounds Summer 2019 **UT Austin College of Natural Sciences** Austin, TX Presented a poster on Black Women in Astronomy for the Black Excellence in STEM Festival 2019 **Capital of Texas Undergraduate Research Conference** Austin, TX Graduate student judge 2018

SCIENTIFIC COLLABORATIONS

PROFESSIONAL SOCIETIES

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

REFERENCES

Ji Wang (email: wang.12220@osu.edu)
Department of Astronomy
The Ohio State University

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Columbus OH, 43210-1173

Jackie Faherty (email: jfaherty17@gmail.com)

American Museum of Natural History

Department of Astrophysics

79th Street and Central Park West

New York, NY 10023

Laura Lopez (email: lopez.513@osu.edu)

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