

Dana Clarice Yaptangco

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Education

Imperial College London, <i>Doctor of Philosophy in Astrophysics</i>	2024-2028
University of Florida, <i>Bachelor of Science in Astrophysics, Minor in Science Education</i> <i>Summa Cum Laude</i>	2020-2024

Research Experience

Graduate Researcher, Imperial College London (Advisor - Dr. Yvonne Unruh) "Disentangling Stellar and Planetary Signals in Exoplanet Transits"	Oct 2024 – present
Fulbright Visiting Researcher, Pontificia Universidad Católica de Chile (Advisor - Dr. Gijs Mulders) "Characterizing Exoplanets Around Small Stars"	Feb 2025 – Dec 2025
Undergraduate Researcher, University of California, Berkeley (Advisor - Dr. Ann Marie Cody) "Detectability of Megastructures in TESS Data Archive" - Utilized unsupervised machine learning anomaly detection to compute anomaly scores for lightcurves - Estimated the probability of overlooked technosignatures embedded within NASA's TESS data archive	Jun 2023 – Aug 2023
Undergraduate Researcher, University of Michigan (Advisor - Dr. Marcelle Soares-Santos) "Upgrading Post Processing of the DESGW Pipeline" - Automated image processing pipeline for the Dark Energy Survey to match gravitational waves with optical counterparts - Conducted mock observing runs & debugged pipeline to prepare for next LIGO observing run	Jun 2022 – Apr 2023
Undergraduate Researcher, University of Florida (Advisor - Dr. Sarah Ballard) "The Effect of Stellar Activity on Transit Detection in M dwarfs" - Led a study on detectability of exoplanets around active versus inactive M dwarf stars - Constructed an injection-and-recovery Python pipeline to analyze lightcurves from NASA's TESS Mission	May 2021 – Mar 2025

Publications

- Hobbs, K. L., Watson, C. A., Costes, J. C., Unruh, Y. C., **Yaptangco, D. C.**, et al. (2026). The Fe I 4377 Å line as a solar faculae indicator: insights from spectral ratio analysis. *Monthly Notices of the Royal Astronomical Society*, 551, stg1462. <https://doi.org/10.1093/mnras/stg1462>
- Costes, J. C., Watson, C. A., de Mooij, E., Hobbs, K. L., **Yaptangco, D. C.**, et al. (2026). Spectral Ratio Analysis: probing of a new suite of stellar activity indicators as a tool for astrophysical noise mitigation. *Monthly Notices of the Royal Astronomical Society*, 550, stg1173. <https://doi.org/10.1093/mnras/stg1173>
- Yaptangco, D. C.**, Ballard, S., Dittmann, J., Alborno, M. (2025). Quantifying the Effect of Short-timescale Stellar Activity Upon Transit Detection in M Dwarfs. *The Astronomical Journal*, 169, 153. <https://doi.org/10.3847/1538-3881/ada898>

Awards & Recognitions

- Fulbright Research Grant, 2025**
- \$14,300 scholarship to undertake a research project in Santiago, Chile
- NSF-GRFP Honorable Mention, 2024**
- UF Astronomy Department Honors Thesis Award, 2024**
- William Oegerle Scholarship in Physics & Astronomy** , 2023-24
- \$5000 award for showing exceptional promise in conducting research in physics and/or astronomy
- Outstanding Service Award from the UF Astronomy Department, 2023**
- SETI Forward Scholarship** , 2023
- \$1500 research support award, aimed at nurturing new SETI research talent
- UF University Scholars Program, 2022**
- \$1750 research support award, for undergraduate research conducted with faculty one-on-one

Selected Presentations

Poster, Mini-Neptunes Around M+F Stars - Presented at the Chilean Astronomical Society (SOCHIAS) Meeting, Puerto Montt, Chile	Oct 2025
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Talk, Characterizing Planets Around Small Stars - Presented at the Fulbright Commission Enhancement Meeting, Santiago, Chile	Mar 2025
Talk, Detecting Planets Around M Dwarfs - Presented as the 2024 Oegerle Scholar at the University of Florida Honors Thesis Seminar	May 2024
Poster, Detectability of Megastructures in TESS Data Archive - Awarded full scholarship to present at the American Astronomical Society Winter Meeting, New Orleans, LA	Jan 2024
Talk, Estimating the Probability of Megastructures in TESS - Presented at UC Berkeley SETI REU Symposium, Berkeley, CA	Aug 2023
Posters, Assessing the Detectability of Transiting Planets Around Small Stars - Presented at UF Spring Undergraduate Research Symposium, Gainesville, FL - Awarded full scholarship to present at Florida Undergraduate Research Conference, Miami, FL - Awarded full scholarship to present at Conference for Undergraduate Women in Physics, Orlando, FL	Jan 2023 – Apr 2023
Talk, Upgrading Post Processing of the DESGW Pipeline - Presented at University of Michigan Physics REU Symposium, Ann Arbor, MI	Aug 2022
Talk, Assessing Detectability of Transits Around Active vs. Inactive M dwarfs - Presented at University of Florida Astronomy REU Symposium, Gainesville, FL	Aug 2021

Other Involvement

Code/Astro Summer School - Accepted with full scholarship to attend 1-week coding best practices workshop in Santa Cruz, California	Jun 2026
Activate Student Mentoring Programme - Mentee in scheme dedicated to supporting under-represented PhD students at Imperial College London	Nov 2024
Exohost Summer School - Accepted with full scholarship to attend 1-week exoplanets workshop in Tartu, Estonia	Sep 2024
Unsolved Problems in Astrophysics - Member of the network to revolutionize physicists' understanding of the universe through inclusive workplaces and equitable practices	May 2024
NASA Executive Secretary - Recorded and summarized NASA Review Panel proceedings	Apr 2024

Selected Service & Outreach

Women & Non-Binary Students in Physics (Mentor) - Completed mentor training on helping students identify and reach their goals - Coached multiple undergraduate students considering a PhD in Physics	2024 – Present
Co-Founder & Director, Women's Astronomy & Astrophysics Mentorship (WAAM!) Program - Conceptualized and constructed a mentorship program focused on serving women and underrepresented minorities pursuing astronomy/astrophysics degrees - Matched compatible graduate/undergraduate mentors & mentees as "big stars" and "little stars" - Organized and coordinated monthly events, including mentor training, team building, internship workshops, women's discussion panels, telescope observing nights	May 2023 – May 2024
Apprentice Teacher, PK Yonge Developmental Research School, Kanapaha Middle School, Gainesville High School - Created lesson plans and taught 8th & 12th grade science classes full-time for one month and part-time throughout school semesters - Improved teaching based on recorded videos of teaching class	Jan 2023 – Dec 2023
Tutor, Triunfadores College Prep Program - Tutored English language learner (ELL) elementary students in math, reading, and science	Aug 2022 – Dec 2022
STEM Club, Carolyn Beatrice Parker Elementary School - Created lesson plans and ran weekly STEM club for the local elementary school's after-school education program	Jan 2022 – Apr 2022