KATIYA FOSDICK

70 Vassar St, Office 602, Cambridge, MA 02139 www.kfosdick.com +1 (608) 575 - 3183 kfosdick@mit.edu **EDUCATION** Ph.D., Astrophysics Division, Physics Department, MIT In Progress (Start: 2022) BSc with Honors, Astronomy Department, UW-Madison 2022 GRANTS, HONORS, & AWARDS Graduate Research Fellowship Program Honorable Mention, NSF 2023 Lowell Doherty Award for Excellence in Astronomy, Astronomy Department, UW-Madison 2022 Dean's List, College of Letters and Science, UW-Madison 2019 - 2022 Dr. Maritza Irene Stapanian Crabtree Award, Physics Department, UW-Madison 2021 Undergraduate Research Award, Wisconsin Space Grant Consortium 2021 Summer Student Research Assistantship, NRAO 2021 Undergraduate Research Award, Wisconsin Space Grant Consortium 2020 Undergraduate Scholarship for Summer Study, UW-Madison 2019 Undergraduate Research Award, Wisconsin Space Grant Consortium 2019 RESEARCH EXPERIENCE Research Assistant, MIT Kavli Institute 2022 - Present Advisor: Professor Mike McDonald Project: The Formation and Evolution of the Most Massive Galaxies Across Cosmic Time Research Intern, MIT Kavli Institute 2022 Advisor: Professor Mike McDonald Project: Simulating the Red-Sequence of Evolved-Galaxy Populations with FSPS Undergraduate Researcher, Astronomy Department, UW-Madison 2018 - 2022 Advisor: Professor Eric Wilcots Project: The Evolution and Growth of Nearby Galaxy Groups Independent Study Student, Astronomy Department, UW-Madison 2018 - 2022 Instructor: Professor Eric Wilcots REU Researcher, Very Large Array, NRAO 2021 Advisors: Dr. Luis Henry Quiroga-Nuñez & Dr. Lorant Sjouwerman Project: Extracting Periods from ZTF Data for MIRAs Identified by Gaia Research Intern, Wisconsin IceCube Particle Astrophysics Center 2017 Supervisor: Professor Kael Hanson Project: Exploring Background Ionizing Radiation with Cloud Chambers

PUBLICATIONS

- 4. Quiroga-Nuñez et al. (including **K. Fosdick** co-author). Characterizing the Evolved Stellar Population in the Galactic Foreground II: Kinematics, Variability, and SiO Maser Luminosity Functions. (in preparation for submission to ApJ)
- 3. **K. Fosdick**. The Evolution and Growth of Nearby Galaxy Groups. Mar. 2022, published to the Proceedings of the 31st Annual Wisconsin Space Conference: Advancing Aerospace with Artificial Intelligence. DOI: https://doi.org/10.17307/wsc.v1i1.326
- 2. K. Fosdick, L.H. Quiroga-Nuñez, & L. Sjouwerman. Characterizing The Variability of Long Period Variable Stars in the r ≤ 2 kpc Solar Neighborhood with Gaia and ZTF. Sep. 2021, published to the Proceedings of the 2021 NRAO/GBO Summer Student Symposium. URL: https://www.nrao.edu/students/2021/Reports/FosdickKatiya.pdf
- 1. **K. Fosdick**. The Evolution and Growth of Nearby Galaxy Groups. Mar. 2020, published to the Proceedings of the 29th Annual Wisconsin Space Conference: Future of Space Flight. DOI: https://doi.org/10.17307/wsc.v1i1.282

PRESENTATIONS

INVITED PRESENTATIONS

II. VIII I TOESEI VIIII OI S	
Research Talk, Monday Science Seminar, UW-Madison Astronomy Department (Canceled)	2023
Research Talk, NRAO Socorro Colloquium	2022
CONFERENCE PRESENTATIONS	
Research Talk, South Pole Telescope - Galaxy Clusters Annual Meeting	2024
Research Talk, 244th AAS Meeting	2024
Research Talk, South Pole Telescope - Galaxy Clusters Annual Meeting	2023
Poster, 240th AAS Meeting	2022
Research Talk, NRAO/GBO Summer Student Symposium	2021
Poster, 29th Annual Wisconsin Space Conference	2019
TEACHING & OUTREACH EXPERIENCE	2006
Panelist, UW-Madison Astronomy Department Graduate Admissions FAQ Panel	2023
Teaching Assistant, Physics 8.398: First-Year Graduate Seminar, Physics Department, MIT	2023
Course Developer (200 hr), Online Astrophysics Research Course for URM high schoolers, MITES Semester, MIT	2023
Instructor (6 weeks), Online Astrophysics Research Course for URM high schoolers,	2023
MITES Semester, MIT	
Scientific Consultant, Article: Drew Turney. A Brief History of the Ludicrous (And Misguided)	
Plots to Blow Up the Moon. Apr. 2023, published to PopularMechanics.com.	

LEADERSHIP AND PROFESSIONAL SERVICE