

Natalia M. Guerrero

University of Florida

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§ Education and Employment

- 2023-present **Ongoing pursuit of MFA in Studio Art: Art + Technology**
University of Florida, Gainesville, FL, USA.
Art-astronomy text and performance. Grinter Fellowship.
- 2021-present **Ongoing pursuit of PhD in Astronomy**
University of Florida, Gainesville, FL, USA. Schraeder Fellowship.
Exoplanet dynamics and architectures. Advisor: Prof. Sarah Ballard
- 2021-2023 **Master of Science in Astronomy**
University of Florida, Gainesville, FL, USA
- 2021 - present **TESS Science Consultant**
(remote, part-time) MIT Kavli Institute for Astrophysics & Space Research, Cambridge, MA
- 2017 - 2021 **TESS Objects of Interest Manager + MIT-TESS Comms Lead**
MIT Kavli Institute for Astrophysics & Space Research, Cambridge, MA
- 2016 - 2017 **Laboratory Technician, TESS Flight Camera Testing**
MIT Kavli Institute for Astrophysics & Space Research, Cambridge, MA
- 2014 - 2016 **Pursuit of DPhil in Physics by Research (incomplete)**
Royal Holloway University of London, Egham, Surrey, UK
Particle Astrophysics. Advisors: Prof. Jocelyn Monroe, Prof. Peter Fisher
- 2010 - 2014 **Bachelor of Science in Physics**
Massachusetts Institute of Technology, Cambridge, MA USA
Astronomy focus, writing minor. Advisors: Dr. Peter Dourmashkin, Prof. Joseph Formaggio. American Physical Society Minority Scholarship recipient (2011-2012, 2012-2013).

§ Selected Academic Talks and Posters

- 03/2024 (invited talk) University of Kansas Astro Seminar Series (virtual) *Plausibility of Capture into High-Obliquity States for Exoplanets in the M Dwarf Habitable Zone*
- 03/2024 (contributed poster) Extreme Solar Systems V, Christchurch, Aotearoa/New Zealand, *Day and Night in the Milky Way: Plausibility of Capture into High-Obliquity States for Exoplanets in the M Dwarf Habitable Zone*
- 07/2023 Other Worlds Lab, UC Santa Cruz, Santa Cruz, CA
- 05/2022 (contributed poster) Exoplanets IV, Las Vegas, NV *Testing Predictions for Spin-Orbit Alignment Among Ensembles of M Dwarf Planetary Systems*
- 10/2021 (invited talk) Aarhus University Stellar Astrophysics Centre Seminar Series (virtual) *Treasure Map in the Stars: The TESS Objects of Interest Catalog in the TESS Extended Mission*
- 07/2021 (contributed talk) TESS Science Conference II (virtual) *TOI Catalog from the TESS Prime Mission and Year 3*
- 04/2021 (invited talk) UFRJ Valongo Observatory Seminar Series (virtual) *TESS Objects of Interest from the TESS Prime Mission and Beyond*

§ Competitively-Awarded Observing Time

- 2024 5.60 hours (1 night), Gran Telescopio Canarias/HiPERCAM
2023 8.26 hours (3 separate nights) awarded on Gran Telescopio Canarias/OSIRIS

§ Key Publications

- Guerrero, N.M., Ballard, S.A., and Su, Y., *Plausibility of Capture into High-Obliquity States for Exoplanets in the M Dwarf Habitable Zone*, *ApJ*, 2024 (arxiv:2310.02332)
Guerrero et al. (+104 co-authors), *The TESS Objects of Interest Catalog from the TESS Prime Mission*, *ApJ-S*, 2021 (arxiv: 2103.12538)
Crossfield, Guerrero, et al., *A TESS Dress Rehearsal: Planetary Candidates and Variables from K2 Campaign 17*, *ApJ-S*, 2018 (arxiv:1806.03127)

§ Science Communication, Education, and Public Outreach

- 2018-2024 *Speaker*, MIT MITES/MOSTEC program, Cambridge, MA (virtual)
08/2024 *Speaker*, Schoolhouse.world Career Chat (virtual)
04/2024 *Facilitator*, Being Stardust Theatre Workshop, Library of Congress Kluge Center, Washington, DC
07/2023 *Speaker*, Lamat Institute, University of California Santa Cruz
2021-2022 *Speaker*, Hillsborough County Public Library Cooperative (virtual)
11/2021 *Speaker/artist*, Multiverse Concert Series presents *Octave of Light*, Watertown, MA
03/2021 *Guest*, Planetary Radio podcast, 3/31/21 episode
2019, 2020 *Speaker*, MIT Lincoln Lab Beaver Works Summer Institute Virtual Seminar series
01/2020 *Speaker*, NASA Hyperwall @ AAS 235, Honolulu, HI
10/2019 *Speaker*, MIT Lincoln Lab Hispanic Heritage Month Keynote
07/2019 *Speaker*, Orlando Public Library Moon Landing 50th Anniversary event
07/2019 *Creative director*, "Songs from Extrasolar Spaces" multi-media concert in collaboration with TESS Science Conference, MIT Music and Theater Arts, CAST at MIT, and Northrop Grumman
04/2018 *MIT-TESS science representative*, TESS launch: NASA TV, NASA Social, NASA Edge, NASA live shot (English and Spanish), additional media interviews, Reddit AMA, and @TESSatMIT Twitter

§ Academic Leadership, Service, and Teaching

- 2023-now *Mentor*, Vanguard STEM Guerrilla Mentor + Unbound Mentoring (virtual)
Sp 2022 *Anonymous referee*, The Astronomical Journal
04/2022 *Guest co-lecturer*, University of Florida ART 6925C Art + Technology Workshop
Fa 2021 *Graduate teaching assistant*, University of Florida AST 1002 Discover the Universe
2020, 2021 *Organizing committee member*, Remote Boston-Area Exoplanet Science Meeting
2019, 2020 *Guest lecturer*, Boston University AS 105 Alien Worlds (virtual)
Sp 2020 *Art-science project mentor*, MIT Science Research Mentoring Program (virtual)
2019, 2020 *Organizing committee member*, TESS Splinter Session at AAS 233, AAS 235
2017-2020 *Organizing committee member*, TESS Science Team Meeting (#14-21)