

Erica Hammerstein

PhD Candidate

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updated as of March 2023

EDUCATION

UNIVERSITY OF MARYLAND

PhD in Astronomy

College Park, MD

Expected Summer 2024

— *Thesis: Population Studies of Tidal Disruption Events and their Hosts: Investigating their Host Galaxy Preferences & the Origin of the UV/Optical Emission*

— *Thesis Advisor: Brad Cenko*

M.S. in Astronomy

September 2020

— *Thesis: The Host Galaxies of ZTF Tidal Disruption Events*

— *Thesis Advisor: Suvi Gezari*

UNIVERSITY OF MICHIGAN

B.S. in Astronomy & Astrophysics

Ann Arbor, MI

April 2018

— *Research Advisor: Kayhan Gültekin*

PUBLICATIONS

First- and Second-authored publications

4. **Hammerstein, E.**, van Velzen, S., Gezari, S., et al., (2023), *ApJ*, 942, 9.
3. **Hammerstein, E.**, Gezari, S., van Velzen, S., et al., (2021), *ApJL*, 908, L20.
2. **Hammerstein, E.**, Gültekin, K., & King, A. (2019), *ApJ*, 875, 82.
1. **Hammerstein, E.**, Cackett, E., Reynolds, M., & Miller, J. (2018), *MNRAS*, 478, 4317.

Highlighted Co-authored publications

1. van Velzen, S., Gezari, S., **Hammerstein, E.**, et al., (2021), *ApJ*, 908, 4.

TALKS

Invited Talks

4. “From discovery to classification to characterization: the role of optical spectroscopy in the hunt for tidal disruption events.” Data Analysis Seminar; March 2023; George Washington University.
3. “30 Tidal Disruption Events from the ZTF-I Survey.” Recent Advances in Supermassive Black Holes Workshop; October 2022; Cornell University.
2. “30 Tidal Disruption Events from the ZTF-I Survey.” Center for Interdisciplinary Exploration and Research in Astrophysics Observational Astronomy Seminar; October 2022; Northwestern University.
1. “Hungry Black Holes and Stellar Snacks.” Center for Gravitation, Cosmology, and Astrophysics Seminar; April 2022; University of Wisconsin-Milwaukee.

Contributed Talks

7. “Integral Field Spectroscopy of Tidal Disruption Event Host Galaxies.” 241st Meeting of the American Astronomical Society; January 2023; Seattle, Washington.
6. “30 Tidal Disruption Events from the ZTF-I Survey.” Lowell Discovery Telescope Partners’ meeting; November 2022; Virtual.
5. “Nuclear Transient Science with ZTF.” ZTF Team Meeting; October 2022; Evanston, IL.
4. “The Final Season Reimagined: 30 Tidal Disruption Events from the ZTF-I Survey.” 240th Meeting of the American Astronomical Society; June 2022; Pasadena, CA.

3. “The Final Season Reimagined: 30 Tidal Disruption Events from the ZTF-I Survey.” ZTF Team Meeting; May 2022; Paris, FR.
2. “Nuclear Transient Science with ZTF.” ZTF Team Meeting; June 2021; Virtual.
1. “Host Galaxy Studies with the Full ZTF-I TDE Sample” ZTF Team Meeting; October 2020; Virtual.

POSTERS

3. **Hammerstein, E.**, Cenko, S.B., Gezari, S., van Velzen, S. “Integral field spectroscopy of 13 tidal disruption host galaxies from the ZTF-I survey.” 20th Meeting of the AAS High Energy Astrophysics Division; March 2023; Waikoloa Village, Hawaii.
2. **Hammerstein, E.**, Gezari, S., van Velzen, S. “The Host Galaxies of ZTF Year 1 Tidal Disruption Events.” 2019 JSI Workshop; November 2019; Annapolis, Maryland.
1. **Hammerstein, E.**, Gültekin, K., & King, A. L. “Probing the Jet Turnover Frequency Dependence on Mass and Mass Accretion Rate.” 231st Meeting of the American Astronomical Society; January 2018; Washington, D.C.

TEACHING & OUTREACH

GRAD-MAP Volunteer & Mentor, <i>University of Maryland</i>	2018 – present
ZTF Summer School Teaching Assistant	Summer 2021
Skype a Scientist Volunteer	Fall 2019 – present
Astronomy 101 Teaching Assistant; Professor Stuart Vogel; <i>University of Maryland</i>	Fall 2018, Spring 2019

LEADERSHIP & SERVICE

UMD CMNS Dean’s Representative	2022 – present
Graduate Council Vice President	2021 – present
Graduate Council Representative	2021 – present
Department of Astronomy FAMILIE Hire Search Committee	2022 – 2023
Department of Astronomy Chair Review Committee	2021 – 2022
Journal Referee, <i>AAS Journals</i>	

SUCCESSFUL OBSERVING PROPOSALS

Principal Investigator

3. DeVeny/Large Monolithic Imager, Lowell Discovery Telescope 2023A (5 nights), 2022B (5 nights)
PI: Erica Hammerstein
2. XRT/UVOT ToO observations, *Swift*, 32 kiloseconds approved 2021–present
1. SED machine, Palomar Observatory, 70 hours 2021–2022
PI: Erica Hammerstein

Co-Investigator

1. KCWI, Keck Observatory, 1 night 2021B
PI: Suvi Gezari, Brad Cenko, **Erica Hammerstein**, Sjoert van Velzen

OBSERVING EXPERIENCE

Keck II, <i>Keck Observatory</i>	1 night
— optical IFU spectroscopy with KCWI	
Lowell Discovery Telescope, <i>Lowell Observatory</i>	25+ nights
— optical spectroscopy with the DeVeny spectrograph	
— optical imaging with the Large Monolithic Imager (LMI)	
MDM Observatory, <i>Kitt Peak National Observatory</i>	3 nights
— spectroscopy with OSMOS on 2.4m Hiltner telescope	