

Erica Aileen Thygesen

Michigan State University
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EDUCATION

Michigan State University, East Lansing, MI

Ph.D., Astronomy and Astrophysics, 2019-current

Advisor 2021- : Dr Joseph Rodriguez

Planned dissertation: *The K2 & TESS Synergy*

Advisor 2019-2021: Dr Stephen Zepf

GPA: 3.892 (out of 4)

Project: Globular Cluster Ultraluminous X-ray Sources in the Furthest Early-Type Galaxies

International Centre for Radio Astronomy Research

Curtin University, Perth, Western Australia

Bachelor of Science (Honours), Astronomy, 2017 - 2018

Supervisors: Dr Richard Plotkin and Dr Gemma Anderson

Project: A Chandra Search for X-ray Ionized Nebulae in the Local Universe

First Class Honours with course weighted average of 86

University of Western Australia, Crawley Campus, Perth, Western Australia

Bachelor of Science, 2013 - 2016

First major in Physics

Second major in Music

GPA: 6.042 (out of 7)

RESEARCH EXPERIENCE

Swinburne Vacation Scholarship

Dec 2017 - Feb 2018, Jul - Aug 2018

Centre for Astrophysics & Supercomputing

Swinburne University of Technology, Hawthorn Campus

Supervisor: Dr Sarah Sweet

Project: The Chemical Content of Galaxies Near and Far

ICRAR/Pawsey Summer Studentship

Dec 2016 - Feb 2017

International Centre for Radio Astronomy Research

Curtin University

Supervisors: Dr Richard Plotkin and Dr Roberto Soria

Project: A Multiwavelength Search for Black Holes in Nearby Dwarf Galaxies

PRESENTATIONS

- Great Lakes Exoplanet Area Meeting (GLEAM) Nov 2022, Oct 2023
- ERES Symposium June 2023
- MIT Kavli Institute's Monday Afternoon Talk series April 2023
- Center for Astrophysics | Harvard & Smithsonian seminar March 2023
- NASA JPL Virtual Exoplanet Lecture Series March 2023
- 241st meeting of the American Astronomical Society Jan 2023
(oral presentation)
- Michigan State University seminar Nov 2022
- Emerging Researchers in Exoplanet Science (ERES) Symposium Aug 2022
- University of Southern Queensland Astromeeeting July 2022
- TESS Science Team Meeting #27 (virtual) Jan 2022
- Compact Objects in Michigan/Ontario (virtual) May 2021
- Astronomical Society of Australia Annual Scientific Meeting (poster sparkler) June 2018 & 2022
- Swinburne studentship presentation Feb 2018
- ICRAR Student Day Dec 2017
- Honours Talk Oct 2017
- ICRAR-Con Sep 2017
- Final ICRAR/Pawsey studentship presentation (×2) Feb 2017
- First ICRAR/Pawsey studentship presentation (×2) Dec 2016

OUTREACH	<ul style="list-style-type: none"> • International Asteroid Day at the MSU Observatory • Astrofest general volunteer 	<p>June 2023 March 2017 & 2018</p>
ACADEMIC SERVICE	Graduate Student Representative for the MSU Astronomy Seminar Committee	2021-2024
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Exoplanet fitting (EXOFASTV2) • X-ray data analysis (CIAO) • Radio data analysis (CASA) • Optical spectroscopy (standard tools for AAO including 2DFDR, SAMI Python manager and LZIFU) • Green II and OzSTAR Supercomputers, Swinburne University • HPCC supercomputer, ICER, Michigan State University • Linux, Python, \LaTeX 	
TEACHING EXPERIENCE	<p>Advisor to undergraduate student</p> <p>Teaching Assistant (Michigan State University)</p> <ul style="list-style-type: none"> • Visions of the Universe ISP205L (~50 students) • Planets and Telescopes AST208 (~ 30 students) <p>Music Tutor (Mandurah Catholic College, Australia)</p>	<p>2023</p> <p>2019-2020 2021</p> <p>Feb 2016 - June 2018</p>
AWARDS	<ul style="list-style-type: none"> • Quad Fellow • MSU Physics and Astronomy Department's Outstanding Graduate Teaching Assistant Award • Curtin University Student Achievement Award • John de Laeter Medal • Certificate of Excellence, Australian Music Examinations Board 	<p>2023-2024 2020 2018 2018 2015</p>
PUBLICATIONS	<ol style="list-style-type: none"> 1. "The K2 & TESS Synergy III: Search and Rescue of the Lost Ephemeris for K2's First Planet", Thygesen, E., Rodriguez, J. E., De Beurs, Z. L., et al., <i>Submitted to AAS Journals</i> 2. "The K2 & TESS Synergy II: Revisiting 26 systems in the TESS Primary Mission", Thygesen, E., Ranshaw, J. A., Rodriguez, J. E., et al., 2023, <i>The Astronomical Journal</i> 3. "Multiwavelength scrutiny of X-ray sources in dwarf galaxies: ULXs versus AGNs", Thygesen, E., Plotkin, R. M., Soria, R., Reines, et al., 2023, <i>Monthly Notices of the Royal Astronomical Society</i> 4. "Globular Cluster Ultraluminous X-ray Sources in the Furthest Early-Type Galaxies", Thygesen, E., Sun, Y., Huang, J., et al., 2023, <i>Monthly Notices of the Royal Astronomical Society</i> 5. "Characterization of K2-167 b and CALM, a new stellar activity mitigation method", De Beurs, Z. L., Vanderburg, A., Thygesen, E., et al., 2024, <i>Monthly Notices of the Royal Astronomical Society</i> 6. "Another Shipment of Six Short-Period Giant Planets from TESS", Rodriguez, J. E., Quinn, S. N., Vanderburg, A., Zhou, G., Eastman, J. D., Thygesen, E., et al., 2023, <i>Monthly Notices of the Royal Astronomical Society</i> 7. "X-ray spectroscopy of newly identified ULXs associated with M87's globular cluster population", Dage, K. C., Zepf, S. E., Thygesen, E., et al., 2020, <i>Monthly Notices of the Royal Astronomical Society</i> 8. "Three ultraluminous X-ray sources hosted by globular clusters in NGC 1316", Dage, K. C., Kundu, A., Thygesen, E., et al., 2021, <i>Monthly Notices of the Royal Astronomical Society</i> 9. "Ultraluminous X-ray sources in seven edge-on spiral galaxies", Dage, K. C., Vowell, N., Thygesen, E., et al., 2021, <i>Monthly Notices of the Royal Astronomical Society</i> 	
TELESCOPE TIME	<p>Co-investigator</p> <ul style="list-style-type: none"> • Very Large Array, VLA/22A-140 • Hubble Space Telescope Cycle 28, ID. #16160, Zepf et al. 	<p>2022 2020</p>