

Erica Aileen Thygesen

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EMPLOYMENT	University of Tasmania , Hobart, Tasmania Research Fellow in Physics - Astronomy, March 2025 - current Project: Lifting the Veil on Cold Planets in the Inner Galaxy P.I. Dr Andrew Cole and Dr Jean-Philippe Beaulieu
EDUCATION	Michigan State University , East Lansing, MI Ph.D., Astronomy and Astrophysics, 2019 - March 2025 Advisor 2021-2025 : Dr Joseph Rodriguez Dissertation: <i>The K2 & TESS Synergy: Uniting NASA's Planet Hunters</i> 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	<ul style="list-style-type: none">• Astronomical Society of Australia Annual Scientific Meeting (oral presentation) July 2025• UTas Inclusion, Diversity and Equity Share Your Story event June 2025• University of Tasmania seminar May 2025• 10th Australian Exoplanet Workshop November 2024• Extreme Solar Systems V (poster) March 2024• 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 (oral presentation) Jan 2023• Michigan State University seminar Nov 2022• Emerging Researchers in Exoplanet Science (ERES) Symposium Aug 2022

	<ul style="list-style-type: none"> • University of Southern Queensland Astromeeeting • TESS Science Team Meeting #27 (virtual) • Compact Objects in Michigan/Ontario (virtual) • Astronomical Society of Australia Annual Scientific Meeting (poster sparkler) • Swinburne studentship presentation • ICRAR Student Day • Honours Talk • ICRAR-Con • Final ICRAR/Pawsey studentship presentation ($\times 2$) • First ICRAR/Pawsey studentship presentation ($\times 2$) 	July 2022 Jan 2022 May 2021 June 2018 & 2022 Feb 2018 Dec 2017 Oct 2017 Sep 2017 Feb 2017 Dec 2016
OUTREACH	<ul style="list-style-type: none"> • Guest on episode 283 of That's What I Call Science podcast • International Asteroid Day at the MSU Observatory • Astrofest general volunteer 	May 2025 June 2023 March 2017 & 2018
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, L^AT_EX, Topcat 	
TEACHING EXPERIENCE	Advisor to undergraduate student Teaching Assistant (Michigan State University) <ul style="list-style-type: none"> • Visions of the Universe ISP205L (~ 50 students) • Planets and Telescopes AST208 (~ 30 students) Music Tutor (Mandurah Catholic College, Australia)	2023 2019-2020 2021 Feb 2016 - June 2018
AWARDS	<ul style="list-style-type: none"> • MSU NatSci Awesome Graduate Student Award (2600 USD) • Quad Fellowship (50,000 USD over one year) • MSU Physics and Astronomy Department's Outstanding Graduate Teaching Assistant Award (200 USD) • Curtin University Student Achievement Award • John de Laeter Medal • Certificate of Excellence, Australian Music Examinations Board 	2024 2023-2024 2020 2018 2018 2015
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., 2024, <i>The Astronomical Journal</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, *Monthly Notices of the Royal Astronomical Society*

8. “Three ultraluminous X-ray sources hosted by globular clusters in NGC 1316”, Dage, K. C., Kundu, A., **Thygesen, E.**, et al., 2021, *Monthly Notices of the Royal Astronomical Society*

9. “Ultraluminous X-ray sources in seven edge-on spiral galaxies”, Dage., K. C., Vowell, N., **Thygesen, E.**, et al., 2021, *Monthly Notices of the Royal Astronomical Society*

TELESCOPE TIME	Co-investigator	
	• Very Large Array, VLA/22A-140	2022
	• Hubble Space Telescope Cycle 28, ID. #16160, Zepf et al.	2020