

Ella Xi Wang

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Education

- 2020 - Present The Australian National University: Doctor of Philosophy
- 2016 - 2019 The Australian National University: Bachelor of Philosophy (Honours)
 - With First Class Honours, GPA 6.78/7
 - Specialisation in Astronomy and Astrophysics Honours
 - Major in Physics
 - Minor in Mathematics

Employment History

- 2022 - Present Tutor at the Australian National University for Joint Colleges of Science
- 2018 - 2020 Tutor at the Australian National University for Research School of Computer Science
 - 2020 Astronomy Data And Computing Services internship
 - 2020 Research Assistant at the Australian National University
- 2017 - 2018 Peer Assisted Learning mentor at the Australian National University for Programming as Problem Solving
- 2014 - 2017 Casual Tutor teaching physics, chemistry and maths at a secondary education level; all subjects at a primary education level

Achievements and Awards

Scholarships

- 2023 NCI HPC-AI Talent Program
- 2022 Zonta Scholarship
- 2021 John Shaw Scholarship
- 2020 Australian Government Research Training Program
- 2019 The Australian National University Science, Health and Medicine Honours Scholarship
- 2018 Summer Scholarship with the Australian National University
- 2017 Summer Scholarship with the International Center for Radio Astronomy Research

Awards

- 2018 - 2023 ASTRO3D travel funding
- 2022 International Astronomical Union travel funding
- 2022 Research School of Astronomy and Astrophysics travel funding
- 2022 Best student led paper at Research School of Astronomy and Astrophysics
- 2022 Best student presentation at the ASTRO3D science meeting
- 2022 Best student presentation at Australian National Institute for Theoretical Astrophysics conference
- 2020 Joan Duffield Research Award

Publications

First Author

- In prep. *3D NLTE Lithium Abundances in GALAH*
- Authors **Wang E. X.**, Nordlander T., Buder S., et al.
- Oct 2021 *Non-detection of ${}^6\text{Li}$ in Spite plateau stars with ESPRESSO*

- Authors **Wang E. X.**, Nordlander T., Asplund M., et al.
 Journal Monthly Notices of the Royal Astronomical Society
 Jan 2021 *3D NLTE Spectral Line Formation of Lithium in Late-type Stars*
 Authors **Wang E. X.**, Nordlander T., Asplund M., et al.
 Journal Monthly Notices of the Royal Astronomical Society
 Dec 2018 *The impact of black hole seeding in cosmological simulations*
 Authors **Wang E. X.**, Taylor P., Federrath C., Kobayashi C.
 Journal Monthly Notices of the Royal Astronomical Society
- Co-author**
- Submitted *The complex stellar system M 22: constraining the chemical enrichment from AGB stars using Magnesium isotope ratios*
 Authors McKenzie M., Yong D., Krakas A. I., **et al.**
 Journal Monthly Notices of the Royal Astronomical Society
 Sep 2022 *The complex stellar system M 22: confirming abundance variations with high precision differential measurements*
 Authors McKenzie M., Yong D., Marino A. F., **et al.**
 Journal Monthly Notices of the Royal Astronomical Society
 Aug 2020 *The GALAH Survey: non-LTE departure coefficients for large spectroscopic surveys*
 Authors Amarsi A. M., Lind K., Osorio Y., **et al.**
 Journal Astronomy & Astrophysics
 Aug 2019 *SN1991bg-like supernovae are associated with old stellar populations*
 Authors Panther F. H., Seitzzahl I. R., Ruitter A. J., **et al.**
 Journal Publications of the Astronomical Society of Australia
 Jun 2017 *Connecting the progenitors, pre-explosion variability, and giant outbursts of luminous blue variables with Gaia16cfr*
 Authors Kilpatrick C. D., Foley R. J., Drout M. R., **et al.**
 Journal Monthly Notices of the Royal Astronomical Society

Presentations

Invited Talks

- Aug 2023 Lund University Colloquium (Lund, Sweden)
 Feb 2021 Precision Spectroscopy Annual Workshop 6 (Online, São Paulo, Brazil)
 Dec 2019 International Centre for Radio Astronomy Research/University of Western Australia Seminar (Perth, Australia)

Contributed Talks

- Sep 2023 European Southern Observatory High Fidelity Conference (Florence, Italy)
 Aug 2023 Munich Institute for Astro-, Particle and BioPhysics workshop (Garching, Germany)
 Aug 2022 International Astronomy Union General Assembly: Focus Meeting 9 (Busan, South Korea)
 June 2022 Astronomical society of Australia Annual Science Meeting (Hobart, Australia)
 May 2022 The ARC Centre of Excellence for All Sky Astrophysics in 3 Dimensions Annual Science meeting (Melbourne, Australia)
 Feb 2022 Australian National Institute for Theoretical Astrophysics (Online, Sydney, Australia)
 Jul 2021 Collaborative Conference on Computational & Data Intensive Science conference (Online)
 Nov 2019 Lithium in the Universe conference (Frascati, Italy)
 Feb 2019 Australian National Institute for Theoretical Astrophysics conference (Melbourne, Australia)
 Feb 2018 Australian National Institute for Theoretical Astrophysics conference (Perth, Australia)

Oct 2017 The Australian National University Undergraduate Research Conference (Canberra, Australia)

Service and Public Outreach

- 2019 - Present Mentoring high school students for the MSATT program
 - 2023 National Youth Science Forum workshop
- 2020 - 2022 Space Squad presenter
 - 2021 Chair of Mt Stromlo Student Seminars organising committee
- 2016 - 2019 MeriSTEM volunteer: making flipped classroom videos for high school students and adding transcripts to videos
 - 2019 Invited speaker at the Bachelor of Philosophy Symposium 2019
 - 2018 Presented at PhD pub yarn for the ANU Astronomy Society
 - 2018 Organised stargazing night, public lecture night, and PhD pub yarn for the ANU Astronomy Society
 - 2018 Volunteer for Stargazing World Record Attempt at the Australian National University
 - 2018 Telescope handler at the Super Blood Blue Moon viewing event jointly hosted by ICRAR, PO, and GDC
 - 2017 Presented at the Bachelor of Philosophy Symposium 2017
 - 2017 Delivered a presentation at the Physics Society public lecture night
 - 2017 Delivered a presentation on my research experiences at the first year Bachelor of Philosophy camp
 - 2016 Ran a number theory maths workshop at Kingsford Smith School as part of the More to Maths program
- 2013 - 2015 Led the Rossmoyne Senior High School maths tutoring program

Successful Proposals

- 2023 Observing: 8 nights on the Anglo Australian Telescope (Siding Spring Observatory)
- 2021 - 2022 Supercomputing: 5.2 MSU on Gadi (National Computing Infrastructure) from the Astronomy Supercomputing Time Allocation Committee
- 2019 Observing: 29.5 hours with the Very Large Telescope (European Southern Observatory)

Observing Experience

- 2019 One night observing experience on Parkes
- 2016 - 2017 Four nights of observing experience on the ANU 2.3m telescope