

# 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  
Specialisation in Astronomy and Astrophysics Honours  
Major in Physics  
Minor in Mathematics  
GPA 6.78/7

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## Publications

### First Author

- 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

- 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., Ruiters 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

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## Presentations

### Invited Talks

- 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

- 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)

## Achievements and Awards

### Scholarships

- 2022 Zonta Scholarship
- 2021 John Shaw Scholarship
- 2020 Australian Government Research Training Program
- 2019 ANU 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

- 2022 Best student led paper at Research School of Astronomy and Astrophysics
- 2022 Best student presentation at The ARC Centre of Excellence for All Sky Astrophysics in 3 Dimensions science meeting
- 2022 Best student presentation at Australian National Institute for Theoretical Astrophysics conference
- 2020 Joan Duffield Research Award

## Service and Outreach

- 2020 - Present Space Squad presenter
- 2019 - Present Mentoring high school students for the MSATT program
  - 2023 NYSF workshop
  - 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

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## 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

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## Observing Experience

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