

Education

- 2004–2008 **PhD**, School of Mathematical Sciences, Monash University.
1999–2003 **BSc (Hons 1A)**, School of Mathematical Sciences, Monash University.

Academic Experience

- 2023+ **Head of Astronomy and Astrophysics**, School of Physics and Astronomy, Monash University.
2021+ **Associate Professor**, School of Physics and Astronomy, Monash University.
2018–2021 **Senior Lecturer and ARC Future Fellow**, School of Physics and Astronomy, Monash University.
2017–2018 **Lecturer and ARC Future Fellow**, School of Physics and Astronomy, Monash University.
2016–2017 **Lecturer**, School of Physics and Astronomy, Monash University.
2014–2016 **Postdoctoral Fellow**, School of Physics and Astronomy, Monash University.
2011–2014 **Postdoctoral Fellow**, School of Physics, University of Melbourne.
2009–2011 **Alexander von Humboldt Postdoctoral Fellow**, Theoretical Astrophysics Group, University of Tübingen, Germany.
2004–2008 **PhD Candidate**, School of Mathematical Sciences, Monash University.

Research Interests

- General relativity, gravitational wave theory and observations, relativistic astrophysics, solutions of Einstein's field equations, black holes, neutron star theory, strong-field gravity, modified gravity.

Awards & Fellowships

- 2021 **The Australian Newspaper**, top Australian researcher in Condensed Matter Physics and Superconductors.
2019 **The Australian Newspaper Rising Star**, top 40 early career researchers in Australia across all sciences.
2018 **Pawsey Medal**, Australian Academy of Sciences.
2017–2021 **Australian Research Council Future Fellowship**, *Extreme astrophysics in the age of gravitational waves*.
2016 **Young Tall Poppy Science Award**, Australian Institute of Policy and Science.
2009–2011 **Alexander von Humboldt Research Fellowship**, Two year postdoctoral fellowship.
2004–2008 **Australian Postgraduate Award**, PhD Scholarship.
2003 **Carl Moppet Award**, Best honours student in pure mathematics.

Grants

- 2023 **Australian Research Council Discovery Project**, *A Transdimensional Approach to Gravitational-Wave Astronomy*, Co-Investigator with Eric Thrane - \$460k.
- 2023 **Australian Research Council Centre of Excellence**, *OzGrav2.0 Centre of Excellence for Gravitational-Wave Discovery*, Co-Investigator, Monash Node Leader, and Extreme Matter Theme Leader - \$35M.
- 2022 **Australian Research Council Discovery Project**, *Precision cosmic expansion in the era of gravitational-wave astronomy*, Co-Investigator with Chris Blake - \$450k.
- 2021 **Australian Research Council LIEF Project**, *Australian partnership in Advanced LIGO+: continuation*, Co-Investigator - \$3M.
- 2021 **Australian Research Council LIEF Project**, *The next generation fast radio burst detector for Australia*, Co-Investigator - \$672k.
- 2018 **Australian Research Council Discovery Project**, *Putting Einstein to the test: Probing gravity with gravitational waves*, Sole Investigator - \$238k.
- 2012 **Melbourne University Early Career Researcher Grant**, Sole Investigator.
- 2012–2013 **Go8 & DAAD Australia-German Research Cooperation Scheme**, Co-CI.
- 2010–2011 **Programme IKYDA grant**, Co-CI.

Research Supervision

Postdoctoral Supervision

- Simon Goode, 2023+, Monash University
- Filippo Anzuini, 2022, Monash University
- Juan Calderon Bustillo, 2018–20, Monash University
- Greg Ashton, 2018–21, Monash University
- Alpha Mastrano, 2013, University of Melbourne

Graduate Supervision

- Shun Cheung, 2023+, Monash University
- Christian Adamcewicz, 2022+, Monash University
- Spencer Magnall, 2022+, Monash University
- Teagan Clarke, 2022+, Monash University
- Rowina Nathan, 2022+, Monash University
- Isobel Romero-Shaw, 2018–22, Monash University
- Paul Easter, 2018–21, Monash University
- Moritz Hübner, 2018–21, Monash University
- Nikhil Sarin, 2018–21, Monash University
- Hayley Macpherson, 2016–19, Monash University
- David Liptai, 2016–19, Monash University

Select Governance Roles

- Node Leader and Gravity Key Programme Leader: OzGrav2, 2024+
- Director, Astronomy Australia Limited Board of Directors, 2023
- Chair: Australian Gravitational-Wave Observatory Project Executive Committee
- Head of Monash Astrophysics, School of Physics and Astronomy, Monash University, 2023+
- Steering Committee, OzGrav2.0 grant preparation, 2021
- Chair, Gravitational Wave Data Centre Science Advisory Panel, 2019-2022

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- Director, St. Leonards College Board of Directors, 2019+
- Chair, OzGrav Programme for Relativistic Astrophysics, 2018-2022
- Co-chair: International Pulsar Timing Array Gravitational-wave Detection Working Group, 2018–2019
- Steering committee: Parkes Pulsar Timing Array collaboration, 2014–2019
- Steering committee: International Pulsar Timing Array collaboration, 2014–2016
- Diversity committee: International Pulsar Timing Array, 2013+
- Steering committee: Australian National Institute for Theoretical Astrophysics, 2012–2016
- Steering committee: Australasian Society for General Relativity and Gravitation: 2012–2018