**Dr Andr­ew John Rigby**

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**Employment:**

* October 2022 – present: Research Fellow, School of Physics and Astronomy, University of Leeds
* June 2016 – September 2022: Postdoctoral Research Associate, School of Physics & Astronomy, Cardiff University

**Education:**

* 2012 – 2016: PhD at the Astrophysics Research Institute, Liverpool John Moores University. STFC-funded studentship. Thesis: *Molecular clouds and star formation in the Inner Galaxy*, supervised by Dr Toby Moore.
* 2008 – 2012: MPhys (Hons) Astrophysics; first class, University of Liverpool and Liverpool John Moores University (joint degree programme). Thesis: *The Physics of Triggered Star Formation*, supervised by Prof. Carole Mundell and Dr Toby Moore.

**Prizes, awards and honours received**:

* Recipient of the Isaac Roberts Prize for Best Astrophysics Student (University of Liverpool and Liverpool John Moores University).
* Recipient of PhD studentship from the Science and Technology Facilities Council

**Research interests:**

* Molecular clouds and star formation
* The impact of large-scale environment within galaxies
* Galactic plane surveys in continuum emission and spectral lines
* The earliest stages of high-mass star and cluster formation
* Single dish and interferometer facilities in the IR-mm wavelength range

**Key achievements:**

* Instrumental in development of the CHIMPS survey (Rigby et al. 2016, 2019)
* PI of service project to complete the CHIMPS observations
* Leading the Galactic plane survey within the GASTON project (Rigby et al. 2021) including first continuum measurements of clump mass growth
* Pioneering the infrared-bright fraction as a metric of ISM evolution
* Cover figure for the IRAM annual report 2020, and IRAM 2021 Summer School poster
* PI of 20-hour NOEMA + 43-hour IRAM 30-m observational program
* PI of 37-hour ALMA proposal Cycle-8 (observations pending)

**Teaching experience**:

* January 2020 – present: Deputy module organiser for *Observing the Universe* (year 2)
* March 2018 – Nov 2019: Guest lecturer in the *Introduction to Astronomy*, *Computational Physics*, and *Formation and Evolution of Stars* modules
* Spring 2017 – Tutorial cover for M. Smith
* Autumn 2013 – Spring 2015: Demonstrator for 2nd year astronomy labs
* Spring 2013 – Spring 2015: Distance Learning tutor at the Astrophysics Research Institute
* Spring 2012: Demonstrator in 1st year undergraduate problem classes

**Student supervision - PhD and undergraduate (include dates**):

* June – September 2021, MSc project student Georgie McGarry
* October 2018 – present, co-supervision of PhD student, Michael Anderson
* August – September 2014, supervision of A-level Nuffield Research Placement student

**Scientific responsibilities held:**

* Leader of the Galactic plane survey within the GASTON Collaboration
* Chair of the Source Extraction and Analysis Working Groups, member of all Working Groups (July 2017 to present) in the CHIMPS & CHIMPS2 collaboration.
* Member of the NIKA2 Collaboration, including the Core Team and Calibration Team
* PI of a Science Use Case in the AtLAST collaboration
* Organiser of the Astronomy & Gravitational Wave seminar series at Cardiff University (June 2017 to June 2019)

**Main Collaborators**:

N. Peretto, T. Moore, D. Eden, M. Anderson, S. Ragan, J. Urquhart, A. Duarte-Cabral, M. Thompson, E. Watkins, G. Williams, P. André, G. Fuller, A. Traficante.

**Collaborations:**

CHIMPS/CHIMPS2, CAFFEINE, CLOGS, GASTON, MAJORS, NIKA2, SEDIGISM.

**Conferences & Seminars:**

* July 2022, invited review at National Astronomy Meeting 2022, Warwick, UK
* July 2021, invited talk at ‘2nd mm Universe @ NIKA2: Observing the millimetre universe with the NIKA2 camera’, Sapienza University, Rome, Italy (remote)
* June 2019, contributed talk at ‘Linking the Milky Way and nearby galaxies’, Helsinki, Finland
* May 2019, invited seminar at the University of Hertfordshire, Hatfield, UK
* April 2018, conference talk at EWASS in Liverpool, UK
* August 2017, conf. talk at ‘SFDE17: from Local Clouds to Distant Galaxies’, Quy Nhon, Vietnam
* August 2016, seminar at the East Asian Observatory, Hilo, Hawaii
* September 2016, conference talk at ‘VIALACTEA 2016: The Milky Way as a Star Formation Engine’ in Rome, Italy
* March 2015, conference talk, ‘The Soul of High-Mass Star Formation’, Puerto Varas, Chile

**Refereeing**:

* 2018–2020: James Clerk Maxwell Telescope
* 2018–2021: Astronomy & Astrophysics, including Letters.
* 2016–2017: Publications of the Astronomical Society of Japan

**Publication summary**:

50 publications, including 5 as the lead author.

Most-cited papers:

1. Adam, R, … Rigby, A. et al. 2018, A&A 609, A115, 100 citations
2. Ward-Thompson, D.; … Rigby, A. J. et al. 2017, ApJ 842, 66, 78 citations
3. Rigby, A. J. et al. 2016, MNRAS, 456, 2885, 72 citations
4. Soam, A.; … Rigby, A. J. et al. 2018, ApJ 861, 65, 47 citations
5. Moore, T. J. T.; … Rigby, A. J. et al. 2015, MNRAS 453, 4264, 45 citations

Accessed 3rd February 2023, h-index: 19

My publication list is available on [ADS](https://ui.adsabs.harvard.edu/user/libraries/BrfzP2UUTpyPutyJTSaPIw), or on ORCID (<https://orcid.org/0000-0002-3351-2200>).

**References:**

Prof. Mark A. Thompson: [M.A.Thompson@leeds.ac.uk](mailto:M.A.Thompson@leeds.ac.uk)

Head of School, School of Physics and Astronomy, University of Leeds

Dr Nicolas Peretto: [PerettoN@cardiff.ac.uk](mailto:PerettoN@cardiff.ac.uk)

Reader, Astronomy Group, School of Physics and Astronomy, Cardiff University

Dr Toby J. T. Moore: [T.J.Moore@ljmu.ac.uk](mailto:T.J.Moore@ljmu.ac.uk)

Reader in Astrophysics, Astrophysics Research Institute, Liverpool John Moores University