

# Christopher John Riseley

## Junior Professor of Radio Astronomy

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## Formal Education/Degrees

### Doctor of Philosophy in Physics

#### University of Southampton

📅 2012 – 2016    📍 Southampton, UK

- Thesis: *Deep Radio Studies of Galaxy Clusters at Long Wavelengths*
- Advisor: Prof. Anna Scaife

### Master of Physics with Honours in Physics with Astro-physics

#### University of Exeter

📅 2008 – 2012    📍 Exeter, UK

- Grade: 1<sup>st</sup> Class
- Advisor: Prof. Isabelle Baraffe

## Career History

### Junior Professor of Radio Astronomy (W1 TT W2)

#### Ruhr-Universität Bochum, Astronomisches Institut

📅 01 Jan. 2025 –    📍 Bochum, Germany

### Research Fellow

#### Università di Bologna, Dipartimento di Fisica e Astronomia

📅 01 Oct. 2022 – 31 Dec. 2024    📍 Bologna, Italy

- Supervisor: A/Prof. Annalisa Bonafede

### Research Fellow

#### Università di Bologna, Dipartimento di Fisica e Astronomia

📅 01 Sept. 2019 – 31 Aug. 2022    📍 Bologna, Italy

- Supervisor: A/Prof. Annalisa Bonafede

### OCE Postdoctoral Fellow

#### CSIRO Space & Astronomy

📅 01 Sept. 2019 – 31 Aug. 2022    📍 Perth, Australia

- Line Manager: Dr. George Heald

### Research Student

#### University of Manchester

📅 01 Jan. 2015 – 28 Jul. 2016    📍 Manchester, UK

- Advisor: Prof. Anna Scaife

### Research Student

#### University of Southampton

📅 01 Sept. 2012 – 31 Dec. 2014    📍 Southampton, UK

- Advisor: Prof. Anna Scaife

## Research Interests

- Groups and clusters of galaxies;
- Galaxy evolution;
- Cosmic magnetism.

## Publication History

### Summary

Updated: 3rd February 2025

• Peer Reviewed Articles:	65
• First Author Articles:	10
• Conference Proceedings:	3



### SAO/NASA ADS

Full Publication List

• Citations:	2312
• First-author citations:	213
• <i>h</i> -index:	26
• <i>g</i> -index:	46



### Google Scholar

Full Publication List

• Citations:	2469
• First-author citations:	253
• <i>h</i> -index:	29
• <i>i10</i> -index:	51



### SciVal

Post-PhD metrics

• Field-weighted citation impact:	2.24
• International collaboration:	98.4%

## Technical Competencies

### Languages

- English (mother tongue)
- Italian (advanced)
- German, French (competent)

### Software

- **Astronomy:** DDFacet, killMS, CASA, *MIRIAD*, WSclean
- **General:** slurm, Python,  $\LaTeX$ , Shell, HTML

### Telescope Expertise

- MeerKAT, MWA, ATCA, ASKAP, GMRT, LOFAR, VLA, KAT-7, AMI

## Awarded Grants

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UWA RCA 2023/GR001284

*"The Evolutionary Map of the Universe (EMU): Maximising Scientific Results from Year 1 of the Radio Survey"*

📄 AU\$ 25,000

- Notes: co-written with Dr. Tessa Vernstrom (UWA)

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INAF Astrofisica Fondamental Mini-Grant 2023

*"Mapping the largest-scale magnetic fields with the MeerKAT Galaxy Cluster Legacy Survey"*

📄 EUR 20,000

- Notes: funding awarded and later retracted due to bureaucratic complications

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OzGrav

*Sponsorship for 2023 ASA ECR Chapter python workshop*

📄 AU\$ 2,500

- Notes: Submitted on behalf of the ASA ECR Chapter Steering Committee

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ASTRO3D

*Childcare costs for 2023 ASA ECR Chapter python workshop*

📄 AU\$ 2,500

- Notes: Submitted on behalf of the ASA ECR Chapter Steering Committee

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ADACS

*Training support for 2023 ASA ECR Chapter python workshop*

📄 in-kind

- Notes: Five weeks (out of five requested) ADACS training support at 1.0 FTE

## Organisation of Scientific Meetings

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Calendar year 2024

- **European Astronomical Society (EAS) 2024:** SOC member for Special Session 31, *"The Square Kilometre Array Observatory: path-way to science operations"*, Padova, Italy
- **SKA Pathfinders Radio Continuum Surveys (SPARCS) XII:** LOC member, for *"SPARCS XII: Pushing Toward the Final Frontier"*, Bologna, Italy
- **"Cosmic Magnetism in the Pre-SKA Era":** SOC member, Kagoshima, Japan

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Calendar year 2023

- **"10 years of MWA operations: a celebration of international collaboration in radio astronomy":** SOC & LOC member, Perth, Australia

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Calendar year 2022

- **MWA Project Meeting:** SOC member, hybrid format
- **CLUSTER3:** Discussion chair, *"A view from Italy on galaxy clusters & groups in the 21st century"*, Bologna, Italy
- **MWA Project Meeting:** SOC member, hybrid format

## Networks & Associations

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MWA Collaboration

🔗 <https://www.mwatelescope.org/>

- **Principle Scientist** since March 2021
- Polarimetry lead Aug. 2018 – Aug. 2019
- GEG science working group member

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ASKAP Survey Science Teams

🔗 <https://emu-survey.org/>

🔗 <https://askap.org/possum/>

- Evolutionary Map of the Universe (EMU) Clusters & Cosmic Web working group chair since 2019
- POLarisation Science Survey of the Universe's Magnetism (POSSUM) member

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LOFAR Collaboration

🔗 <https://lofar-surveys.org/>

- Surveys Key Science Project member since 2017
- Magnetism Key Science Project member since 2012
- MSSS core team (2012 – 2018)

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SKA Working Groups

🔗 Magnetism SWG website

- Magnetism Science Working Group core member

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German Research Networks

- DFG FOR 5195 member since 2025

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Astronomical Society of Australia (ASA)

🔗 <https://asa.astronomy.org.au/>

- ECR Chapter steering committee member (Jun. 2021 – Aug. 2023)
- Ordinary member since 2016

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Time Allocation Committees

- MeerKAT reviewer since Jun. 2024
- ATNF expert reader since Dec. 2023
- MWA TAC Chair since Jul. 2022
- GMRT expert reviewer since Jan. 2021

## Seminars and Colloquia

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### Calendar year 2024

- **4 invited talks:** Swiss SKA Days 2024; MWA Project Meeting; EAS 2024; Harvard-CfA colloquium
- **5 contributed talks:** Radio2024 Meeting; EMU International Meeting 2024; EAS 2024 (2); SPARCS-XII

### Calendar year 2023

- **4 invited talks:** DIFA Astrophysics Seminar Series; UKZN Astrophysics Seminar Series; Joint SKA Magnetism/EoR Meeting; 10 years of MWA operations: a celebration of international collaboration in radio astronomy
- **4 contributed talks:** SALF-IX; The Fourth (Italian) National Workshop on the SKA Project; 10 years of MWA operations: a celebration of international collaboration in radio astronomy; LOFAR Family Meeting 2023

### Calendar year 2022

- **1 invited talk:** ICRAR Colloquium
- **4 contributed talks:** SKA Magnetism SWG Plenary; EMU International Virtual Meeting 2022; ASA Annual Scientific Meeting; URSI AT-AP-RASC 2022

### Calendar year 2021

- **2 invited talks:** GalFid Seminar Series; Harvard-CfA colloquium
- **6 contributed talks:** Radio2021 Symposium; The Third National Workshop on the SKA Project – The Italian Route to the SKAO Revolution (contributed); ASA Annual Scientific Meeting; LOFAR MKSP Annual Meeting; A Precursor View of the SKA Sky

### Calendar year 2020

- **3 invited talks:** SALF-VII; Radio2020 Symposium; ANU-RSAA colloquium
- **3 contributed talks:** ASA Annual Scientific Meeting; EAS 2020; LOFAR MKSP Annual Meeting

### Calendar year 2019

- **1 invited talk:** NRAO Colloquium, Socorro
- **5 contributed talks:** SALF-VI; The 17th International Meeting of the EMU project; The Second Pietro Baracchi Conference; ASA Annual Scientific Meeting; SPARCS-IX

### Calendar year 2018

- **5 contributed talks:** SALF-V; ASA Annual Scientific Meeting; SPARCS-VIII; ASTRON/JIVE Colloquium; European Week of Astronomy & Space Science (EWASS)

### Calendar years 2012 to 2017

- **1 invited talk:** NCRA Colloquium, Pune
- **11 contributed talks:** SALF-IV; The Broad Impact of Low Frequency Observing; Physics of the Intracluster Medium; Bolton & Student Symposium; The First Pietro Baracchi Conference; LOFAR MKSP Meeting; SALF-II, Albuquerque; East Asia Observatory Colloquium, Hilo; YERAC 2014; SKA South Africa Colloquium, Cape Town

## Accepted PI Proposals

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### MeerKAT ☉ 84.5 hours

- Proposal codes: DDT-20230705-CR-01; SCI-20210212-CR-01

### ATCA ☉ 305 hours

- Proposal codes: C3389, C3258, C3198

### GMRT ☉ 105 hours

- Proposal codes: 45\_047, 37\_106, ddtC080, ddtC066, 31\_039, 25\_077

### VLA ☉ 8.5 hours

- Proposal codes: 24A-063

### VLBI ☉ 45 hours

- Proposal codes: CY18006, ER051, V582

### Other radio ☉ 668 hours

- Facility [code]: MWA [G0084], LOFAR [LC16\_003], AMI [none], KAT-7 [none]

### Other optical ☉ three nights

- Telescope [code]: HCT [HCT-2024-C1-P38]; ANU 2.3m [PID 4190027]

## Supervision & Mentoring

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- Annalisa Pagliotta, PhD, Università di Bologna, 2024–2027 (*co-supervision*)
- Annalisa Pagliotta, Masters, Università di Bologna, 2024
- Keegan Trehaeven, Masters, Rhodes University, 2022 (*visiting at the Università di Bologna*)
- Giada Pignataro, PhD, Università di Bologna, 2021–2024 (*co-supervision*)
- Giulia Lusetti, Masters, Università di Bologna, 2021 (*co-supervision*)
- Nadia Biava, PhD, Università di Bologna, 2019–2022 (*co-supervision*)
- Dr. Xiang Zhang, CERC Fellow, CSIRO Space & Astronomy, 2018–2019
- Emma Alexander, undergraduate summer student, University of Manchester, 2015

## Teaching

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- 2018: Three-part lecture series at the 4th SKA Summer School, Shanghai
- 2013: Second-year classical mechanics demonstrator, University of Southampton

# Media, Engagement & Outreach

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## The Conversation (AU)

*"The largest structures in the Universe are still glowing with the shock of their creation"*

📅 15 Feb. 2023

👁 Reads: 32k

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## VICE Motherboard

*"Strange Radio Signals From Deep Space Contain Signs of New Physics, Scientists Say"*

📅 04 Aug. 2022

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## UniBo Magazine

*"Le emissioni radio enigmatiche e spettacolari di Abell 3266"*

📅 01 Aug. 2022

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## The Conversation (AU)

*"We found some strange radio sources in a distant galaxy cluster. They're making us rethink what we thought we knew"*

📅 31 Jul. 2022

👁 Reads: 139k

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## ABC Mid-West & Wheatbelt

[Live radio interview](#)

📅 23 May 2018

🎧 Listeners: 30k (estimated)

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## Outreach Events

- Perth AstroFest, 16 Mar. 2019: presenter & volunteer
- CSIRO STEM Open Day, 2018; presenter
- Perth Science Festival, 18–19 Aug. 2018: CSIRO booth volunteer
- Geraldton Stargazing Live Star Party, 23 May 2018: outreach volunteer
- Perth Astrofest, 24 Mar. 2018: CSIRO booth volunteer
- 2012–2014: Southampton Astrodome team member and presenter