

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 Astrophysics

University of Exeter

📅 2008 – 2012 📍 Exeter, UK

- Grade: 1st 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: February 3, 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

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)

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

OzGrav

Sponsorship for 2023 ASA ECR Chapter python workshop

📄 AU\$ 2,500

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

ASTRO3D

Childcare costs for 2023 ASA ECR Chapter python workshop

📄 AU\$ 2,500

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

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

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

Calendar year 2023

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

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

MWA Collaboration

🔗 <https://www.mwatelescope.org/>

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

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

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)

SKA Working Groups

🔗 Magnetism SWG website

- Magnetism Science Working Group core member

German Research Networks

- DFG FOR 5195 member since 2025

Astronomical Society of Australia (ASA)

🔗 <https://asa.astronomy.org.au/>

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

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

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

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

- 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

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

Media, Engagement & Outreach

The Conversation (AU)

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

📅 15 Feb. 2023

👁 Reads: 32k

VICE Motherboard

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

📅 04 Aug. 2022

UniBo Magazine

"Le emissioni radio enigmatiche e spettacolari di Abell 3266"

📅 01 Aug. 2022

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

ABC Mid-West & Wheatbelt

[Live radio interview](#)

📅 23 May 2018

🔊 Listeners: 30k (estimated)

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