

DR. CHRISTOPHER JOHN RISELEY

PERSONAL DETAILS

Address: Dipartimento di Fisica e Astronomia
Università degli Studi di Bologna,
via P. Gobetti 93/2, 40129 Bologna, Italy

Mobile: +39 391 395 6513

E-mail: chris.riseley.astro@gmail.com
christopher.riseley@unibo.it

Website: <https://astroripples.github.io/cjriseley/>

EDUCATION

University of Southampton, Southampton, UK 2012 – 2016
Ph.D. Physics
Supervisor: Prof. Anna Scaife

University of Exeter, Exeter, UK 2008 – 2012
MPhys Physics with Astrophysics, 1st Class (Hons)
MPhys project supervisor: Prof. Isabelle Baraffe

PUBLICATION SUMMARY

My full publication history is available [here](#) (via the SAO/NASA Astrophysics Data System).

Peer Reviewed Articles¹:	54	Total citations¹:	1490
Peer Reviewed Articles as first author¹:	9	First-author citations¹:	131
Conference Proceedings¹:	2	Field-weighted citation impact²:	2.36
<i>h</i>-index¹:	20	International collaboration²:	98.0%
<i>g</i>-index¹:	37		

¹: Statistics sourced from the SAO/NASA Astrophysics Data System (September 2023).

²: Statistics sourced from SciVal for post-PhD period, 2016–present (September 2023).

ACCEPTED PI PROPOSALS

Facility	Code/Details [hours]	Total
MeerKAT	SCI-20210212-CR-01, DDT-20230705-CR-01	84.5 hours
ATCA	C3389, C3258, C3198	305 hours
VLBI	ER051 (EVN+e-MERLIN), V582 (LBA)	25 hours
GMRT	45_047, 37_106, ddtC080, ddtC066, 31_039, 25_077	105 hours
Other	MWA [G0084], LOFAR [LC16_003], AMI ³ , KAT-7 ³	668 hours
HPC	CINECA [IsC94]	7200 core-hours

³: One proposal, no code.

NETWORKS & ASSOCIATIONS

MWA Principal Scientist (03/2021–) ; GEG science working group (Polarization science lead 08/2018–08/2019)

ASKAP EMU (Clusters & Cosmic Web working group co-chair 2019–) ; POSSUM

LOFAR Magnetism Key Science Project ; Surveys Key Science Project ; MSSS core team (2012–2018)

SKA Magnetism Science Working Group member

ASA Early Career Researcher (ECR) steering committee member (06/2021–08/2023)

AWARDED GRANTS

Source	Details	Value
INAF	Mini-grant “ <i>Mapping the largest-scale magnetic fields with the MeerKAT Galaxy Cluster Legacy Survey</i> ”	EUR20,000
OzGrav	Sponsorship for 2023 ASA ECR Chapter python workshop ⁴	AU\$2500
ASTRO3D	Childcare costs for 2023 ASA ECR Chapter python workshop ⁴	AU\$2500
ADACS	Training support for 2023 ASA ECR Chapter python workshop ⁴	in-kind ⁵

⁴: Submitted on behalf of the ASA ECR Chapter Steering Committee.

⁵: Five weeks (out of five requested) 1.0 FTE training support from ADACS node at Curtin University.

ORGANISATION OF SCIENTIFIC MEETINGS

- 2024:** Cosmic Magnetism in the Pre-SKA Era, SOC member, 2024 [Kagoshima, Japan].
- 2023:** 10 years of MWA operations: a celebration of international collaboration in radio astronomy, organising committee member, July 2023 [Perth, Australia].
- 2022:** MWA Project Meeting, SOC member, December 2022 [hybrid]; CLUSTER3 Meeting, discussion session chair, September 2022 [Bologna, Italy]; MWA Project Meeting, SOC member, July 2022 [hybrid].
- 2021:** MWA Virtual Project Meeting, SOC member, December 2021 [online]; MWA Virtual Project Meeting, SOC member, June 2021 [online].

SEMINARS AND COLLOQUIA

- 2023:** UKZN Astrophysics Seminar Series (*invited*); Joint SKA Magnetism/EoR Meeting (*invited*); 10 years of MWA operations: a celebration of international collaboration in radio astronomy (two presentations: one *invited*, one contributed); LOFAR Family Meeting 2023 (contributed)
- 2022:** SKA Magnetism SWG Plenary (contributed); EMU International Virtual Meeting 2022 (contributed); ASA Annual Scientific Meeting (contributed); URSI AT-AP-RASC 2022 (contributed); ICRAR Colloquium (*invited*).
- 2021:** GalFid Seminar Series (*invited*); Radio2021 Symposium (contributed); SPARCS-X (contributed); The Third National Workshop on the SKA Project – The Italian Route to the SKAO Revolution (contributed); ASA Annual Scientific Meeting (contributed); LOFAR MKSP Annual Meeting (contributed); Harvard-CfA colloquium (*invited*); A Precursor View of the SKA Sky (contributed). *All 2021 colloquia virtual*.
- 2020:** SALF-VII (*invited*); Radio2020 Symposium (*invited*); ANU-RSAA colloquium (*invited*); ASA Annual Scientific Meeting (contributed); EAS 2020 (contributed); LOFAR MKSP Annual Meeting (contributed). *All 2020 colloquia virtual due to COVID-19 restrictions*.
- 2019:** NRAO, Socorro (colloquium); SALF-VI, Tempe (contributed); The 17th International Meeting of the EMU project, Catania (contributed); The Second Pietro Baracchi Conference, Firenze (contributed); ASA Annual Scientific Meeting, Brisbane (contributed); SPARCS-IX, Lisbon (contributed).
- 2018:** SALF-V, Nagoya (contributed); The 4th SKA Summer School, Shanghai (*invited*); ASA Scientific Meeting, Melbourne (contributed); SPARCS-VIII, Penticton (contributed); ASTRON/JIVE Colloquium, Dwingeloo (colloquium); EWASS, Liverpool (contributed).
- 2017:** SALF-IV, Sydney (contributed); The Broad Impact of Low-Frequency Observing, Bologna (contributed); Physics of the Intracluster Medium, Beijing (contributed).
- 2016:** Bolton & Student Symposium, Perth (contributed); The First Pietro Baracchi Conference, Perth (contributed); LOFAR MKSP Meeting, Manchester (contributed).
- 2015:** SALF-II, Albuquerque (contributed); East Asia Observatory, Hilo (colloquium).
- 2014:** YERAC 2014, Torún (contributed); NCRA, Pune (colloquium).
- 2013:** SKA South Africa, Cape Town (colloquium).

PRESS RELEASES & MEDIA

- 2023:** The Conversation (AU): “[The largest structures in the Universe are still glowing with the shock of their creation](#)”
- 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](#)”
VICE: “[Strange Radio Signals From Deep Space Contain Signs of New Physics, Scientists Say](#)”.
UniBo Magazine: “[Le emissioni radio enigmatiche e spettacolari di Abell 3266](#)” (“*The enigmatic and spectacular radio emission of Abell 3266*”)

TEACHING & MENTORING

- 2021–** Co-supervision of PhD and Masters students at the Università di Bologna
- 09/2018 – 08/2019** Mentoring CSIRO Space & Astronomy CERC Fellow Dr. Xiang Zhang
- 06/2015 – 09/2015** Third-year summer research student supervision, University of Manchester.
- 01/2013 – 06/2013** Second-year classical mechanics demonstrator, University of Southampton.

ENGAGEMENT & OUTREACH

- 2019:** Presenter and Volunteer at Perth Astrofest
- 2018:** Presenter at CSIRO STEM Open Day; CSIRO booth volunteer at Perth Science Festival; Volunteer at Stargazing Live Star Party in Geraldton; live radio interview for ABC Mid-West & Wheatbelt in Geraldton; CSIRO booth volunteer at Perth Astrofest.
- 2014–2014:** Southampton Astrodome team member and presenter.

TECHNICAL STRENGTHS

- Telescope Experience:** MeerKAT, MWA, ATCA, ASKAP, GMRT, LOFAR, VLA, KAT-7, AMI
- Software (astronomy):** DDFacet, killMS, CASA, *MIRIAD*, AIPS, WSclean
- Software (general):** slurm, Python, L^AT_EX, Shell, HTML
- Languages:** English (native), Italian (advanced), French (advanced), German (advanced)

EMPLOYMENT HISTORY

- Università di Bologna**, Dipartimento di Fisica e Astronomia 01/10/2022 – 30/09/2025
Supervisor: A/Prof. Annalisa Bonafede
Position: Research Fellow
- Università di Bologna**, Dipartimento di Fisica e Astronomia 01/09/2019 – 31/08/2022
Supervisor: A/Prof. Annalisa Bonafede
Position: Research Fellow
- CSIRO Space & Astronomy** 01/09/2016 – 31/08/2019
Line Manager: Dr. George Heald
Position: OCE Postdoctoral Fellow
- University of Manchester, Manchester, UK** 01/01/2015 – 28/07/2016
Supervisor: Prof. Anna Scaife
Position: Research Student (PhD)
- University of Southampton, Southampton, UK** 01/09/2012 – 31/12/2014
Supervisor: Prof. Anna Scaife
Position: Research Student (PhD)

REFEREES

- A/Prof. Annalisa Bonafede Dipartimento di Fisica e Astronomia,
Università degli Studi di Bologna, via P. Gobetti 93/2, 40129 Bologna, Italy.
E-mail: annalisa.bonafede@unibo.it
- Prof. Steven Tingay Curtin Institute for Radio Astronomy, Brodie Hall Building, 1 Turner Ave, Bentley,
WA 6102, Australia.
E-mail: S.Tingay.curtin.edu.au
- Prof. Anna Scaife Jodrell Bank Centre for Astrophysics, School of Physics & Astronomy, Oxford Road,
Manchester, M13 9PL, UK.
E-mail: Anna.Scaife@manchester.ac.uk