

Section A: Overview of the Research Project

Title: Zooming in on high-redshift MeerKAT-discovered OH megamasers

Area: Science

Level: Masters

Abstract:

There has been a recent resurgence in hydroxyl megamaser (OHM) studies driven by Square Kilometre Array (SKA) and its precursor/pathfinder telescopes, which will greatly expand our view of OHMs and their cosmic evolution over >80 per cent of the age of the universe. This is expected to yield large scientific returns as OHMs trace galaxy mergers, extreme star formation, high molecular gas densities, and potentially binary/dual supermassive black hole systems. A key question in these far-infrared luminous, highly-obscured galaxies is the relative energy output between the considerable star formation and potential active galactic nuclei present, particularly as both the AGN and star-formation rate space density increases rapidly towards higher redshift. This project will use MeerKAT and EVN observations to disentangle what powers the radio continuum emission in the highest-redshift ($z = 0.7$), highest-luminosity ($>10^4 L_{\text{sun}}$) main-line OHM published to date, which was recently discovered with the MeerKAT MIGHTEE survey of the COSMOS extragalactic field. The student will also use VLA 1.4 and 3 GHz maps in combination with the lens model published in Jarvis+2024 to characterise the radio emission in this high-redshift, gas-rich system. High-resolution radio imaging, in combination with the wealth of multi-wavelength data available, will enable a detailed study that contributes toward understanding the population of high-redshift OHMs that MeerKAT, and eventually the SKA, are poised to discover.

5. Primary supervisor's details:

Prof Roger Deane

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University of the Witwatersrand / University of Pretoria

6. Co-supervisor/Research supervisor's details

Prof Matt Jarvis

Oxford University / University of the Western Cape

Section B: Details of Research Project

1. *Scientific/Engineering merit: describe the objectives of the research project, placing them in the context of the current key questions and understanding of the field.*

OH megamasers have been demonstrated to trace galaxy mergers, extreme star formation, high molecular gas densities, and may potentially serve as signposts of binary/dual supermassive black hole systems. MeerKAT and the SKA's raw sensitivity, survey speed and OHM redshift coverage will enable a large sample of OHMs, which are some of the most highly-obscured galaxies in the universe, yet also with some of the highest bolometric luminosities. Indeed, it has become clear over the past few decades that OHMs are closely associated with galaxies with significant infrared emission, exhibiting a tight correlation between the far-infrared luminosity and the OHM luminosity (e.g. Baan et al. 2008, Wang et al., 2023). A key question in these sources is the relative energy output between the considerable star formation and potential active galactic nuclei present at their dust-obscured heart, particularly as both the AGN and star-formation rate space density increase at the redshifts MeerKAT (SKA) is (will be) able to reach. It is, therefore, critical that we characterise high-redshift examples of these sources with detailed, multi-wavelength, multi-scale observations and contrast these with well-studied local examples (e.g., Arp 220, Baan et al., 2023). This project will do exactly that for the highest-redshift ($z = 0.7$), highest-luminosity ($>10^4 L_{\text{sun}}$) main-line OHM published to date, which was recently discovered with the MeerKAT MIGHTEE survey of the COSMOS extragalactic field.

The primary questions this project seeks to address are: (1) is there an obscured AGN within this highest redshift OHM (or more exotically, two AGN)? (2) What is the approximate magnification of any present compact radio relative to the host galaxy and is this relevant to the anomalously high 8 micron emission reported in Jarvis+2024? (3) How do answers to the above two questions affect the host galaxy's location on the far-infrared-radio correlation?

2. *Feasibility: outline the methods that will be used to achieve the objectives. Provide details on the availability of required data / access to required equipment / availability of research facilities and other resources required. Include any relevant expected intermediate milestones and associated timeframes towards attaining the overall objectives of the project.*

There are two primary methods/techniques the student must master to complete this project successfully:

- a) calibration and imaging of MeerKAT and Very Long Baseline Interferometry data. For the MeerKAT component, this is likely to be primarily focused on refined imaging the OH megamaser and so less demanding than the calibration of a full dataset. All these data are in hand. The VLBI data will need to be calibrated from end-to-end, for which we will use the rPICARD data processing pipeline, based primarily on CASA. The proposal for the EVN dataset is currently under review. If not successful, there are at least four additional opportunities to secure these data ahead of the start of the Masters project in January 2025.
- b) Basic lens modelling, potentially making refinements to the lens model published in Jarvis+2024, but primarily focused on different source models. The primary challenge here is anticipated to be the lensing theory rather than the modelling, given the already published work and deliberately narrowed scope of the required modelling effort.

Timeline and milestones:

The first 6 months will be dedicated to a literature review and acquiring the relevant data processing expertise, alongside gaining familiarity with the relevant optical through far-infrared data.

The second 6 months will be focused on data processing of the VLBI dataset(s) as well as varying the MeerKAT imaging parameters to fine-tune the data products to suit the science goals.

The third 6-month block will focus on the lens modelling using the fixed lens model available and drafting a paper on the results. The student will then turn to the thesis write-up, which they should aim to submit for examination after 21 months.

3. Link the proposed project to one or more of the SRAO research priority areas for 2024 (refer to Section 5 of the Application Guide), and explain in some detail how the proposed research will contribute to the priority area(s).

The project is a combination of two SRAO research priority areas, namely MeerKAT science and Very Long Baseline Interferometry (including with HartRAO). It will use both MeerKAT continuum and spectral line data in combination with high-angular resolution radio continuum data from the European VLBI Network and likely the Australian Long Baseline array. In addition, a wealth of multi-wavelength data will be used that is publicly available for the primary target.

4. If relevant, describe any particular qualifications, academic abilities, skills and/or experience that a student should have in order to successfully deliver on the objectives of the research proposed.

The project will have Python-based coding and data processing/analysis components to it. Some experience with this at Honours level will be advantageous but is not essential.

Section C: CV of Primary Supervisor (please include details of students supervised to date)

Section D: CV of Co-Supervisor/Research Supervisor (if relevant) (please include details of students supervised to date)

Roger P. Deane

Email: roger.deane@wits.ac.za DOB: 7 March 1983 Nationality: South Africa

WORK EXPERIENCE

2020 -	Director: Wits Centre for Astrophysics (University of the Witwatersrand) Professor and SKA Chair in Radio Astronomy Extraordinary Professor (University of Pretoria)
2018 - 2020	Associate Professor (University of Pretoria) Founder and Head of Radio Astronomy Research Group
2016 - 2017	Senior Research Fellow (Rhodes University)
2012 - 2016	SKA Postdoctoral Fellowships (University of Cape Town and Rhodes University)

EDUCATION

2008 - 2012	DPhil (Astrophysics), Oxford
2007 - 2008	MSc Astrophysics and Space Science (with distinction, University of Cape Town)
2002 - 2006	BSc Electronic Engineering (University of Cape Town)

H-INDEX 34 **CITATIONS** > 12,000 ([Google Scholar](#)) **NRF RATING** Y1

AWARDS

2023	NSTF-South32 Science Communication Award
2020	University of Pretoria Exceptional Academic Achievement Award
2019-2020	Co-recipient: Einstein Medal, Bruni Rossi Prize, National Science Foundation Diamond Achievement: Smithsonian Institution's American Ingenuity Award

PRIMARY SUPERVISION EXPERIENCE

Over 50 completed and current postdoctoral, PhD, MSc and Honours students since 2012

RESEARCH GRANTS AWARDED

2022	Wits University Research Committee Medium Research Equipment Grant
2020-2027	DSI/NRF/SARAO SKA Chair in Radio Astronomy
2019-2021	Erasmus Mobility Grant (co-PI with Radboud University)
2018-2019	National Research Foundation Incentive Funding for Rated Researchers
2016	SARAO 10-year Group Grant (Rhodes University)

PROFESSIONAL RESPONSIBILITIES/AFFILIATIONS

2020-2023	Chair of MeerKAT Proposal Review Committee
2020-2022	Chair of the Wits Digital Dome Working Group
2018-2024	Management Team - Inter-University Institute for Data Intensive Astronomy
2019-2022	Steering Committee - Development in Africa with Radio Astronomy
2020-2023	South African Radio Astronomy Observatory (SARAO) Users Committee
2017-2024	International SKA-VLBI and Continuum Science Working Group member
2016-2024	Event Horizon Telescope Consortium Member
2018-2024	MeerKAT MIGHTEE-VLBI Survey working group (chair)
2017-2024	South African Rubin Observatory/LSST Committee Member
2013-2024	Reviewer for several international and national funding agencies and observatories, including the European Research Council, SARAO, NRF, MeerKAT, eMERLIN, GMRT
2017-2024	Member of the International Astronomical Union (IAU)

TEACHING EXPERIENCE

Lecturing and curriculum development at four universities and at several national and international programmes and workshops.

INVITED TALKS

Over 30 invited plenary presentations, primarily for international conferences.

SCIENCE AWARENESS AND ENGAGEMENT

Regular interviews, lectures, and public courses delivered in a wide range of formats

Research featured in most major national and international media/news agencies

Led communications and fundraising campaign of the R75 million Johannesburg Planetarium upgrade

REFERENCES

Available upon request.

Prof. Matt J. Jarvis

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Employment

Mar 2020 - present	Associate Head of MPLS Division (People), University of Oxford
Oct 2019 - present	Visiting Professor, University of the Western Cape, SA
Aug 2014 - present	Professor of Astrophysics & Fellow St. Cross, University of Oxford
Oct 2012 - Jul 2012	University Lecturer & Fellow St. Cross, University of Oxford
Apr 2011 - 2019	Adjunct Professor, University of the Western Cape, SA
Mar 2009 - Sep 2012	Reader in Astrophysics & RCUK Academic Fellow, University of Hertfordshire
Jan 2007 - April 2009	Senior Lecturer & RCUK Academic Fellow, University of Hertfordshire
Oct 2006 - Dec 2006	SKA DS2-T1 Task Leader, University of Oxford
Dec 2002 - Sep 2006	PPARC PDRA, University of Oxford
Oct 2000 - Nov 2002	Postdoctoral Fellow for the RTN Network “The physics of the intergalactic medium”, Universiteit Leiden

Academic Qualifications

1997-2000	DPhil, University of Oxford, Thesis: The Most Distant Radio Galaxies. Supervisor: Prof. Steve Rawlings
1993-1997	MPhys with Honours (2i), in Physics with Astrophysics, University of Birmingham.
2022	Mental Health First Aider, Course delivered by MHFA England

Grant Income

Since arriving in Oxford in 2012 I have won over £3.5 million as PI, including an ERC Advanced Grant awarded in 2022 (£2.06 million) and a 100% success rate of a PDRA+FEC in every STFC consolidated grant round since 2009, and two successful bids to the University of Oxford John Fell Fund for pump priming initiatives (SKA Cosmology and development of GPz for fusion and other areas, with Profs. Steve Roberts (Eng. Sci) and Steve Rose (Physics). I have also been (and continue to be) responsible for a further > £1 million as the lead of the Dark Universe strand of the Hintze Centre for Astrophysical Surveys. In addition to these I have been a coI on grants that support Oxford involvement in many of the next generation facilities central to Oxford’s long-term strategy for astronomy, e.g. LSST/Rubin, SKA and *Euclid* totalling in excess of £15 million. I also secured ~ £0.5 million of funding for postdoctoral fellows in South Africa with my previous joint appointment with the University of the Western Cape, at which I continue to be a visiting Professor. The vast majority of this funding has been for researchers, rather than equipment, with the exception of relatively small amounts for computing.

Selected current research-related roles

- 2022 - present: Ombudsperson for the whole of the WEAVE Survey Consortia
- 2021 - present: Builder of the WEAVE-LOFAR collaboration
- 2021 - present: Member of the 4MOST-WAVES Collaboration
- 2017 - present: Member of the LSST Galaxies and Dark Energy Science Collaborations
- 2013 - present: Member of the SKA “Continuum Science” Working Group
- 2013 - present: Member of the SKA “Cosmology” Working Group
- 2012 - present: Member of the MOONS Science Team.
- 2012 - present: Member of *Euclid*
- 2010 - present: PI of the MeerKAT Extragalactic Deep Continuum Survey (MIGHTEE)
- 2010 - present: co-I of MeerKAT Extragalactic Deep HI Survey proposal (LADUMA).
- 2008 - present: Previous Chair and member of the working group for Cosmological studies with the LOFAR telescope
- 2006 - 2020: PI of VISTA Deep Extragalactic Observations (VIDEO) ESO Public Survey.

Internal Committee Work and Citizenship

In my role as Associate Head of the MPLS division I sit on a large number of internal committees that are related to supporting our people through both Equality, Diversity & Inclusion initiatives and Human Resources, but also

in roles specific to ensuring our early career researchers are able to realise their ambitions. These include: **2023 - present:** Pay & Conditions Review Panel; **2022 - present:** Leadership Hub Steering Group Member; **2022:** Interview panel member for the University’s first Chief Diversity Officer; **2022:** Interview panel for the Associate Head of Medical Sciences Division for ED&I; **2022:** MPLS Professorial Merit Pay Panel; **2021:** University Diversity Targets Wowkring Group; **2021-2022:** Member of the University EJRA Review Group; **2020 - 2021:** Member of the sub-committee of Personnel Committee on Academic Workload; **2020 - present:** Member of the University of Oxford Race Equality Task Force and Co-Chair of the Student Issues Working Group; **2020 - present:** Member of the University of Oxford EDI Steering Committee; **2020 - present:** Member of the University EJRA Committee; **2020 - present:** Member of MPLS Personnel Committee; **2020 - present:** Member of MPLS General Purposes Committee; **2020 - present:** Member of MPLS Divisional Board; **2020 - present:** Member of the University of Oxford Personnel Committee; **2020 - present:** Member of the University Research Staff Consultative Group; **2020 - present:** Member of the University Joint Appointments Panel; **2022 - present:** Member of Academic Futures Management Committee; **2020 - present:** Member of the Research Staff Steering Committee; **2020 - present:** Chair of the MPLS Research Staff Forum; **2020 - present:** Member of the UCU Consultative Committee; **2020 - 2021:** Chair of University of Oxford Athena SWAN Working Group; **2020 - 2021:** Chair of University of Oxford Athena SWAN Working Group. **2019 - 2020:** Project Board Member of University of Oxford Focus Programme “Building Trust in our Data”; **2020 - 2021:** Member of Pro-Vice Chancellor Recruitment Panel due to impact of COVID-19; **2017 - present:** Mathematical, Physical & Life Sciences Division Equality & Diversity Committee (Chair since 2020); **2020 - 2021:** MPLS EPSRC IAA Steering Group; **2018 - present:** Member of Nominations Committee of St. Cross College, Oxford; **2018 - present:** Member of Executive Committee of St. Cross College, Oxford; **2017 - 2020:** Member of Physics Management Committee; **2017 - 2020:** Chair of Physics Department Postdoc Liaison Committee; **2017 - 2020:** Physics Department Equality & Diversity Committee (Chair from Sept 2018); **2017 - 2019:** Physics Department Computing Committee; **2013 - 2015:** Chair of Astrophysics Computer Users Group, Oxford

External Committee Work

2022/23: Member of the NASA Hubble Fellowship Panel; **2022 - present:** Member of the UK:LSST Board Member; **2022 - present:** Member of the UK SKA Steering Committee; **2021 - present:** Member of STFC Fellowship Review Panel; **2020 - present:** Member of the Education & Training Committee of the Science & Technology Facilities Council; **2017 - 2019:** Member of the Ernest Rutherford Fellowship Selection Panel; **2020:** External member of interview panel for chair in extragalactic astrophysics, University of Manchester; **2014:** MeerKAT Science Director Hiring Committee, SA SKA, South Africa; **2011 - 2015:** Isaac Newton Group UK Board Member; **2011 - 2014:** South African SKA University Working Group Member; **2010 - 2012:** Member of the UK Steering Committee for *Euclid*; **2011 - 2014:** South African SKA University Working Group Member; **2009 - 2011:** UK extragalactic science expert on the Isaac Newton Telescope Group Science Advisory Committee; **2010 - 2011:** Postgraduate Admission Tutor for Astrophysics, University of Hertfordshire; **2009 - 2011:** UK extragalactic science expert on the Isaac Newton Telescope Group Science Advisory Committee.

Organization of Conferences and Invited Talks

I have served on the Scientific Organizing Committees of several international conferences on galaxy evolution and meetings for survey facilities (e.g. “The many facets of extragalactic radio surveys”, Bologna, Italy. “Synergistic Science with Euclid and the SKA”, Oxford, UK and “Galaxy Evolution Over Five Decades”, Cambridge, UK and “Very Wide Field Surveys in the Light of Astro2010”, Baltimore, USA). I have also lectured at international summer schools in astrophysics and cosmology, and been invited to give reviews of topics in radio astronomy, cosmology and galaxy evolution for over 40 conferences and meetings in the past 10 years.

Selection of Invited Talks and Reviews at International Meetings

- March 2021: “Introduction to the SKA pathfinders” - UK SKA Town Hall Meeting, online
- May 2020: “The MIGHTEE survey: progress and future plans” - Munich Joint Astronomy Colloquium, ESO, Germany
- Feb 2020: “Galaxy populations across time and wavelength” - Australia-ESO Conference: The build-up of galaxies through multiple tracers, Perth, Australia
- Jun 2018: “Galaxy Science with LSST” - LSST@Europe3, Lyon, France
- Oct 2017: “Extragalactic foreground science: multi-wavelength approach and cosmic evolution” - IAUS333: Peering Towards Cosmic Dawn, Dubrovnik, Croatia
- Jul 2016: “Galaxy evolution from the future multi-object spectrographs” - EWASS, Athens, Greece
- Jun 2016: “Radio cosmology with multi-wavelength help” - Workshop on Cosmology with Next Generation Radio Surveys, Trieste, Italy

I have also given > 50 contributed talks and seminars in a large number of universities, both in the UK and

abroad, on topics ranging from high-redshift AGN, exploring the epoch of reionization, galaxy evolution studies from wide-field surveys and the possibilities that are opened up with the new generation of radio facilities.

Teaching

I have undertaken a range of teaching at both the University of Hertfordshire and Oxford. This includes large lecture courses to first and second year undergraduates, as well as small group tutoring. Coupled with this I have given a range of more advanced lectures for graduate students and also lectures focussed more on transferable skills and career management and training. I offer to supervise 2 final year project students every year, and also encourage my postdocs to do similar to gain experience of supervision, as well as become more involved with the undergraduate course in physics.

Undergraduate Teaching

- 2022 - present: Lecturer: 1st year course on Waves & Normal Modes, Oxford
- 2018,2020,2021: Physics Final Honours School Examiner, Oxford
- 2018 - 2022: Senior Laboratory Demonstrator in 1st year General Physics lab, Oxford
- 2016 - 2018: Corpus Christi College Tutor: 2nd year Electromagnetism & Optics, Oxford
- 2015 - 2018: Senior Laboratory Demonstrator in 1st year E&M lab, Oxford
- 2014 - 2019: Lecturer: 1st year course on Waves & Normal Modes, Oxford
- 2014 - present: Brasenose College Tutor: 2nd year Electromagnetism & Optics, Oxford
- 2009 - 2012: Lecturer: 1st year course on Cosmology, Hertfordshire
- 2010 - 2012: Lecturer: 1st year mathematics course on Applications of Mathematics, Hertfordshire

Graduate Teaching

- 2019 - present: Careers talk, paper writing and grant writing skills
- 2012 - present: Future Facilities for Astronomy, Oxford
- 2015 - 2018: Observational Cosmology, Oxford
- 2008 - 2012: Observational Cosmology, Hertfordshire

Postgraduate Supervision and Examinations

I have supervised 29 PhD students since 2002, 8 of these at the University of Hertfordshire, 16 at Oxford (including a student jointly supervised with prof. Steve Roberts in Engineering Science on applying Gaussian Processes to astrophysics data), 4 in South Africa at the University of the Western Cape and Rhodes University and one at the University of Western Australia. I current supervise 4 PhD students at Oxford. I have also supervised 4 Research Masters projects at the Universities of Leiden, Hertfordshire, and the Western Cape.

Early Career Researchers

I have also line managed a large number of postdocs and acted as mentor for several fellowship holders both in the UK and in South Africa, these include: David Bonfield, Boris Hauessler, Sam Lindsay, Stephen Fine, Tom Mauch, Kim McAlpine, Imogen Whittam, Mattia Vaccari, Matt Prescott, Jon Zwart, Rebecca Bowler, Peter Hatfield, Ian Heywood, Leah Morabito, Corentin Schreiber, James Allison, Anastasia Ponomareva.

Mentoring Early Career Researchers

I have always prioritised my students and postdocs during my career and have on numerous occasions taken on the supervision of students who have had problems with previous supervisors. Evidence for this is the fact that I have supervised or co-supervised over 20 students in the last 10 years. Many have obtained postdoctoral positions, with the earlier students now entering permanent faculty positions (e.g. Dan Smith, Associate Professor, University Hertfordshire; Kim McAlpine, UWC faculty, now at SARA0). I have been successful in operating a large and diverse group of researchers and pay particular attention to postdocs and students working together, ensuring postdocs gain supervision experience, while giving the students additional support. Evidence for this can be seen in the publications. Furthermore, my breadth of research, from cosmology to galaxy evolution, spanning all wavebands, enables my group to broaden their own horizons in research, putting them on a solid footing, where the “big picture” is always at the forefront of our research. Particular examples of this include: adapting completeness corrections that we use in deep extragalactic fields for measuring the luminosity function and/or two-point correlation function, and; combining machine learning and template fitting photometric redshifts to obtain the most accurate redshifts to the depth of the available imaging data, are naturally amenable to be used on much wider cosmology surveys in a robust and efficient way. Something that I am also passionate about is promoting Equality and Diversity, both in my own group and across the collegiate univeresity. I have been successful of having an even gender representation in my own group since 2014, which also ensures diverse discussion and for any issues to be raised in a receptive atmosphere. Since 2020 I have been the Associate Head of the Mathematics, Physical and Life Science Division for People, and aim to encourage and help achieve equity throughout the sciences, University and wider society.

In 2023 I was awarded the MPLS Division “Outstanding Supervisor Award” 2023, after nominations by members of my research group.

Equality, Diversity & Inclusion

Since 2020, a significant fraction of my time is devoted to promoting and developing ED&I across the departments within the MPLS division and the wider University as Associate Head of MPLS (People). The divisional team within MPLS are widely regarded as the leaders on ED&I across the University. This is due to the growing engagement from out departments that has partly been the product of the leadership partnership between myself and Daisy Hung (MPLS Head of ED&I). Over the last two years we have, with financial contributions from our departments and division, introduced:

- ED&I Fellows to help engage with early career researchers and PhD students, and to also provide a pathway for our younger colleagues to instigate initiatives and become more involved in the divisional ED&I work.
- Summer internships on Diversifying the Curriculum in STEM, where student interns work with colleagues from our departments and the History of Science to undertake projects investigating the role of under-represented groups in the development of our scientific knowledge. At the end of the project they produce material that can be potentially be used by lecturers to provide a wider perspective on the development of scientific ideas or the roles played by under-represented groups.
- A cohort of Mental Health First Aiders. Recognising the impact of the pandemic on the mental health of our people, we funded two cohorts of mental health first aiders to provide support for people who may be suffering poor mental health or have a long-term mental health condition.
- A new ED&I training programme that is open to all members of MPLS, and which has had excellent feedback. Workshops include Trans Awareness, Intersectional Allyship, Supporting Neurodivergent Staff, Supporting Disabled Staff, Being an Effective Bystander, Anti-racist Allyship, Creating an Inclusive Research Culture. As part of this we have also been adapting these workshops to present to the MPLS senior leaders in Divisional Board meetings. We have also provided bespoke sessions to individual research groups on request, where we have found that a combination of the professional trainer delivering workshop with a senior academic (in these cases myself) provides additional context and engagement with academic colleagues. I have also recently stepped in and delivered a session to Biology on “Building and sustaining an inclusive research environment” by myself. I hope this exemplifies how we as a team work, where we all step up to help each other.
- A series of activities and panel discussions as part of Mental Health Awareness Week in both 2021 and 2022. These events had a large number of our people attending providing very positive feedback on both the activities and the panel discussions.
- We have worked with four of our DPhil Students to help them set up the BIPOC in STEM Network, providing them with advice and funding. (<https://bipocstemnetwork.web.ox.ac.uk/>)
- With Prof. Laura Herz (Associate Head of MPLS for Research), we instigated the “Awards for Outstanding Supervision” to ensure recognition of those PIs and Senior Researchers who demonstrate leadership and best practice by nurturing and supporting research colleagues in their role as DPhil supervisors or research group leaders. These awards are less about research excellence and the standing of an individual research group leader, and more about recognising the members of our research community who excel in their everyday supervision of colleagues and professional commitment to people development.

Obtained GPC approval for a parental leave policy to ensure our fixed-term researchers are treated fairly and equitably.

Over the current academic year we plan to work with colleagues in HR to update our Job Descriptions and Recruitment Guidelines to continue to increase the diversity our workforce. To develop people who can help advise on disability across all of our departments and provide guidelines for hosting events to enable disabled and neurodivergent people to fully participate.

We also engage with our counterparts in other divisions to ensure that good initiatives are shared across the university and we do not duplicate effort, in what is generally an under-resourced area. We will also work closely with the new University Chief Diversity Officer in implementing culture change across the University and wider society.

Prof. Matt Jarvis: Publications (h-index=80)

- [1] R. G. Varadaraj, R. A. A. Bowler, M. J. Jarvis, N. J. Adams, and B. Häußler, “The bright end of the galaxy luminosity function at $z \simeq 7$ from the VISTA VIDEO survey,” *arXiv e-prints*, p. arXiv:2304.02494, Apr. 2023.
- [2] H. Pan, M. J. Jarvis, M. G. Santos, N. Maddox, B. S. Frank, A. A. Ponomareva, I. Prandoni, S. Kurapati, M. Baes, P. E. Mancera Piña, G. Rodighiero, M. J. Meyer, R. Davé, G. Sharma, S. H. A. Rajohnson, N. J. Adams, R. A. A. Bowler, F. Sinigaglia, T. van der Hulst, P. W. Hatfield, and S. Sekhar, “MIGHTEE-HI: The $M_{\text{HI}} - M_*$ relation over the last billion years,” *arXiv e-prints*, p. arXiv:2210.04651, Oct. 2022.
- [3] E. van Kampen, M. Lacy, D. Farrah, C. d. P. Lagos, M. Jarvis, C. Maraston, K. Nyland, S. Oliver, J. Surace, and J. Thorne, “The Spitzer Extragalactic Representative Volume Survey and DeepDrill extension: Clustering of near-infrared galaxies,” *MNRAS*, May 2023.
- [4] S. Pinjarkar, M. J. Hardcastle, J. J. Harwood, D. V. Lal, P. W. Hatfield, M. J. Jarvis, Z. Randriamanakoto, and I. H. Whittam, “Spectral age distribution for radio-loud active galaxies in the XMM-LSS field,” *MNRAS*, May 2023.
- [5] P. N. Best, R. Kondapally, W. L. Williams, R. K. Cochrane, K. J. Duncan, C. L. Hale, P. Haskell, K. Malek, I. McCheyne, D. J. B. Smith, L. Wang, A. Botteon, M. Bonato, M. Bondi, G. Calistro Rivera, F. Gao, G. Gürkan, M. J. Hardcastle, M. J. Jarvis, B. Mingo, H. Miraghaei, L. K. Morabito, D. Nisbet, I. Prandoni, H. J. A. Röttgering, J. Sabater, T. Shimwell, C. Tasse, and R. van Weeren, “The LOFAR Two-metre Sky Survey: Deep Fields Data Release 1. V. Survey description, source classifications and host galaxy properties,” *MNRAS*, Apr. 2023.
- [6] A. A. Ponomareva, M. J. Jarvis, H. Pan, N. Maddox, M. G. Jones, B. S. Frank, S. H. A. Rajohnson, W. Mulaudzi, M. Meyer, E. A. K. Adams, M. Baes, K. M. Hess, S. Kurapati, I. Prandoni, F. Sinigaglia, K. Spekkens, M. Tudorache, I. Heywood, J. D. Collier, and S. Sekhar, “MIGHTEE-H I: the first MeerKAT H I mass function from an untargeted interferometric survey,” *MNRAS*, vol. 522, pp. 5308–5319, July 2023.
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