

Christopher C. Lovell

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🔗 christopherlovell

Education

- University of Sussex** Sept. 2015– June 2019
Ph.D. Astronomy
 - *Advisors:* Prof. Peter Thomas & Dr. Stephen Wilkins
 - *Title:* Exploring the history of star formation in galaxies and its environmental dependence at high redshift.
- University of Cardiff** Sept. 2009– June 2013
MPhys Astrophysics, First-class honours
 - *Advisors:* Prof. Peter Coles, Prof. Anthony Whitworth

Experience

- Dennis Sciama Fellow** Portsmouth, UK
Institute of Cosmology and Gravitation, University of Portsmouth October 2022 – Present
- JSPS short-term postdoctoral research fellowship** Tokyo, Japan
ICRR, University of Tokyo April 2022 – July 2022
- Postdoctoral Research Fellow** Hertfordshire, UK
School of Physics, Astronomy and Mathematics, University of Hertfordshire August 2019 – Oct. 2022
- Postdoctoral Research Fellow** Sussex, UK
School of Mathematical and Physical Sciences, University of Sussex May 2019 – August 2019
- Data Scientist** London, UK
The Bank of England Sept. 2013 – Oct. 2015

Grants, Awards & Successful Proposals

- Royal Astronomical Society 2024 Winton Award** [🔗](#) January 2024
‘Awarded for research by an early career Post Doctoral researcher in a UK institution in astronomy or geophysics’
- Co-I on ALMA cycle 11 proposal (PI: Giuliano Lorenzon)** August 2024
‘Hunting the prolonged dust growth in dusty quiescent galaxies at intermediate redshift’ (2024.1.00814.S)
- CAMELS-EAGLE: extending the CAMELS suite to new astrophysical models and cosmic environments (PI: Chris Lovell)** April 2023
Successful DiRAC 15th call proposal, granted 13.5 million CPU hours on COSMA.
- JSPS short-term postdoctoral research fellowship** [🔗](#) April 2022
University of Tokyo, Japan, min. 1086000¥ (approx. £7700)
- Co-I on JWST General Observer Cycle 1 proposal 1791** [🔗](#) (PI: Justin Spilker) April 2021
‘The Early Assembly History of the Most Massive Halo in the Reionization Era’
- Cardiff Undergraduate Research Opportunities Programme (CUROP)** Summer 2013
‘Extreme Value Statistics of galaxy voids’, approx. £1500

Selected Conferences, Meetings, & Invited Talks

- KITP conference and workshop ‘Cosmic Dawn Revealed by JWST’** [🔗](#) Santa Barbara, CA
Invited review talk August 2024
- National Astronomy Meeting 2024 ‘Euclid science exploitation in the UK’** [🔗](#) Hull, UK
Session organiser July 2024
- Standard cosmology at the threshold of change?** [🔗](#) Thessaloniki, Greece
Invited keynote speaker, Aristotle University of Thessaloniki April 2024
- SBI for galaxy evolution** [🔗](#) Bristol, UK
Co-organiser of programme, University of Bristol February 2024

Department of Physics, Oxford University <i>Invited talk</i>	<i>Oxford, UK October 2023</i>
School of Physics and Astronomy, University of Nottingham <i>Invited talk</i>	<i>Nottingham, UK February 2023</i>
Kavli Institute, University of Cambridge <i>Invited talk</i>	<i>Cambridge, UK January 2023</i>
KITP program ‘Galaxy Evolution with Data-driven Astronomy’ ↗ <i>Invited tutorial, blackboard talk, & presentation</i>	<i>Santa Barbara, CA January - April 2023</i>
Mapping the Invisible Universe ↗ , Lorentz Center <i>Invited talk</i>	<i>Leiden, Netherlands September 2022</i>
Department of Earth and Space Science, Osaka University <i>Invited talk</i>	<i>Osaka, Japan May 2022</i>
Department of Astronomy, University of Toronto <i>Invited talk</i>	<i>Toronto, Canada March 2022</i>
CCPP, New York University <i>Invited talk</i>	<i>New York City, NY February 2020</i>
Department of Physics & Astronomy, Rutgers University <i>Invited talk</i>	<i>Rutgers, NJ February 2020</i>

Teaching, Communication & Outreach

Writing	<i>2016 – Present</i>
<ul style="list-style-type: none"> ◦ I have written outreach articles on a number of subjects for a wide range of different publications and audiences, including <i>Astrobites</i> ↗, <i>Significance</i> (the magazine of the Royal Statistical Society and the American Statistical Association), and The Conversation. 	
Webb UK outreach	<i>2017 – Present</i>
<ul style="list-style-type: none"> ◦ I have performed outreach at a number of events around the UK related to the James Webb Space Telescope, including festivals and talks for societies, including talks to the public, schools groups of various ages and astronomy societies. 	
Lecturing and Tutoring	<i>2016 – Present</i>
<ul style="list-style-type: none"> ◦ Performed lectures, workshop supervision and marking for a number of courses in physics, astronomy and data science at bachelor, masters and graduate level. 	
Certified Software Carpentries Instructor	<i>2021</i>
<ul style="list-style-type: none"> ◦ The Carpentries ↗ Instructors are volunteers who teach foundational computational and data skills to researchers. 	

Supervision and Mentorship

Sophie Newman <i>Ph.D. Astronomy, University of Portsmouth</i>	<i>Sept. 2023 - April 2027</i>
<ul style="list-style-type: none"> ◦ Supervisors: Claudia Maraston & Christopher Lovell 	
Alice E. Matthews <i>Ph.D. Astronomy, University College London</i>	<i>Sept. 2021 - April 2025</i>
<ul style="list-style-type: none"> ◦ Supervisors: Mat Page & Christopher Lovell (external) 	
Maxwell Maltz <i>Ph.D. Astronomy, University of Sussex</i>	<i>Sept. 2021 - August 2028 (part-time)</i>
<ul style="list-style-type: none"> ◦ Supervisors: Peter Thomas (recently passed away), Stephen Wilkins, Christopher Lovell 	
Qazi Saaheelur Rahaman <i>Undergraduate summer research project</i>	<i>June 2023 - Sept. 2023</i>
<ul style="list-style-type: none"> ◦ Supervisors: Christopher Lovell 	

Technical Skills

Languages: Python, R, C, C++, Intel MPI, OpenMP, Javascript, Git, HTML, L^AT_EX, bash

Software & Packages: .Pyro, Tensorflow, Keras, SBI, Scikit-learn, D3, HDF5