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

Employment

Postdoctoral Research Fellow *Cambridge, UK*
Kavli Institute for Cosmology, University of Cambridge *July 2025 – Present*

Dennis Sciama Fellow *Portsmouth, UK*
Institute of Cosmology and Gravitation, University of Portsmouth *October 2022 – July 2025*

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'

PI: CAMELS-EAGLE: extending the simulation suite to group scale environments *DiRAC COSMA 17th call, 15.1 million CPU hours awarded, approx. £151 000* April 2025

Co-I on ALMA cycle 11 proposal (PI: Lorenzon) August 2024
'Hunting the prolonged dust growth in dusty quiescent galaxies at intermediate redshift' (2024.1.00814.S)

PI: CAMELS-EAGLE: extending the CAMELS suite to new astrophysical models and cosmic environments April 2023
DiRAC COSMA 15th call, 13.5 million CPU hours awarded, approx. £135 000.

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: Spilker)** April 2021
'The Early Assembly History of the Most Massive Halo in the Reionization Era'

Introduction to Astronomy in Python (Online Module Developer) November 2016
South East Physics Network (SEPNet), £1000

Cardiff Undergraduate Research Opportunities Programme (CUROP) Summer 2013
'Extreme Value Statistics of galaxy voids', approx. £1500

Summary of Publications

Publications: > 70 refereed, including 12 first-author.

Citations: > 2000, h-index: 30.

See my ADS ⬈ and Google Scholar ⬈ profiles for full details.

Selected Conferences, Meetings, & Invited Talks

SBI for galaxy evolution 2025 ↗, **University of Bristol** *Co-organiser*	*Bristol, UK May 2025*
Lorentz Center workshop Big Galaxies Big Problems ↗. *Invited talk*	*Leiden, Netherlands April 2025*
Euclid Cosmological Simulations SWG meeting 2025 *Invited Seminar*	*Barcelona, Spain March 2025*
Queen Mary University of London *Invited seminar*	*London, UK March 2025*
Kapteyn Institute, University of Groningen *Invited seminar*	*Groningen, Netherlands March 2025*
Imperial College *Invited seminar*	*London, UK January 2025*
Royal Astronomical Society *Invited awards speech*	*London, UK January 2025*
KITP conference and workshop 'Cosmic Dawn Revealed by JWST' ↗ *Invited review talk*	*Santa Barbara, CA August 2024*
National Astronomy Meeting 2024 'Euclid science exploitation in the UK' ↗ *Session organiser*	*Hull, UK July 2024*
Standard cosmology at the threshold of change? ↗, **Aristotle University of Thessaloniki** *Invited keynote speaker*	*Thessaloniki, Greece April 2024*
SBI for galaxy evolution 2024 ↗, **University of Bristol** *Co-organiser*	*Bristol, UK February 2024*
Department of Physics, Oxford University *Invited talk*	*Oxford, UK October 2023*
Kavli Institute, University of Cambridge *Invited talk*	*Cambridge, UK January 2023*
KITP program 'Galaxy Evolution with Data-driven Astronomy' ↗ *Invited tutorial, blackboard talk, & presentation*	*Santa Barbara, CA April 2023*
Mapping the Invisible Universe ↗, Lorentz Center *Invited talk*	*Leiden, Netherlands Sept. 2022*
Department of Earth and Space Science, Osaka University *Invited talk*	*Osaka, Japan May 2022*
Department of Astronomy, University of Toronto *Invited talk*	*Toronto, Canada March 2022*
CCPP, New York University *Invited talk*	*NYC, USA February 2020*
Department of Physics & Astronomy, Rutgers University *Invited talk*	*Rutgers, NJ February 2020*
Department of Astronomy, Kyoto University *Invited talk*	*Kyoto, Japan May 2022*

Teaching, Communication & Outreach

Popular Science Writing *2016 – Present*

I have written outreach articles on a number of subjects for a wide range of different publications and audiences, including *Astrobites* ↗, *Significance* (the magazine of the Royal Statistical Society and the American Statistical Association), and The Conversation.

Outreach *2017 – Present*

I have performed outreach at a number of events around the UK, including the Bluedot festival and the Festival of Speed, as well as talks for astronomy societies, school groups, and the general public (e.g. Pint of Science).

Lecturing and Tutoring *2016 – Present*

U. Hertfordshire: Applied Data Science (Masters, lectures), Foundations of Data Science (Bachelors, exercise classes), Machine Learning and Neural Computing (Bachelors, exercise classes), *U. Sussex:* Introductory Python (Bachelors, exercise classes). I am also a member of The Carpentries ↗ volunteers who teach foundational computational and data skills to researchers.

Supervision and Mentorship

Sophie Newman *Ph.D. Astronomy, University of Portsmouth*	*Sept. 2023 - April 2027*
Supervisors: Claudia Maraston & **Christopher Lovell**	
Alice E. Matthews *Ph.D. Astronomy, University College London*	*Sept. 2021 - April 2025*
Supervisors: Mat Page & **Christopher Lovell** (external)	
Theodore Martin *Undergraduate third year research project*	*January 2025 - June 2025*
Supervisors: **Christopher Lovell**	
Qazi Saaheelur Rahaman *Undergraduate summer research project*	*June 2023 - Sept. 2023*
Supervisors: **Christopher Lovell**	

Mentor for the following students: Aswin Vijayan (Ph.D. 2017 - 2021), William Roper (Ph.D. 2018 - 2022), Jussi Kuusisto (Ph.D. 2018 - 2022), Louise Seeyave (Ph.D. September 2021 - June 2025), Thomas Harvey (Ph.D. 2023 - 2026), Matthew Gebhardt (Ph.D. 2020 - 2025), Maxwell Maltz (Ph.D. Sept. 2021 - August 2028 (part-time))