Dr Adam Carnall – Curriculum Vitae

PERSONAL INFORMATION

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PUBLICATION STATISTICS

Number of refereed journal publications: 32 (of which 7 as first author)
h-index: 22 (via NASA ADS 25/10/2022) – 1368 total citations (of which 554 as first author)

ACADEMIC POSITIONS

2021−   Leverhulme Early Career Fellow – Institute for Astronomy, University of Edinburgh, UK

2019 − 2021   Postdoctoral Research Assistant – Institute for Astronomy, University of Edinburgh, UK

EDUCATION

2015 − 2019   PhD Astrophysics – Institute for Astronomy, University of Edinburgh, UK
               The star-formation histories of massive quiescent galaxies – Advisor: Prof. Ross McLure

2011 − 2015   Masters in Physics and Astronomy – Durham University, UK
               First class honours (final mark 82%)

2009 − 2011   A-Levels – Thirsk School and Sixth Form College
               A*A*A*A* in Physics, Chemistry, Maths and Further Maths

TELESCOPE TIME AWARDED (PI)

2021   **James Webb Space Telescope** – Programme ID: 2285 (8 hours; £610,000)
               A massive quiescent galaxy at $z = 4.657$

2019   **ESO Very Large Telescope** – Programme ID: 0104.B-0885 (64 hours; £560,000)
               The stellar mass-metallicity relation for massive quiescent galaxies at $1.0 < z < 1.5$

TELESCOPE TIME AWARDED (Co-I)

2021   **James Webb Space Telescope** – Programme ID: 1837 (187 hours, £15M)
               PRIMER: Public Release Imaging for Extragalactic Research (PI: J. Dunlop)

2021   **James Webb Space Telescope** – Programme ID: 1433 (11 hours; £800,000)
               Physical properties of the triply-lensed $z = 11$ galaxy (PI: D. Coe)

2021   **ESO Very Large Telescope** – Programme ID: 108.21Z5 (60 hours; £520,000)
               The stellar and gas-phase properties of VANDELS galaxies at $z > 3$ (PI: F. Cullen)

2015   **ESO Very Large Telescope** – Programme ID: 294.A-5031 (2 hours; £17,000)
               Probing the epoch of reionization with two bright quasars at $z > 6$ (PI: T. Shanks)

PUBLICLY RELEASED SOFTWARE

2018   **BAGPIPES** – Python software for galaxy spectral modelling and fitting
               https://github.com/ACCarnall/bagpipes – used in 88 publications to date

2017   **SPECTRES** – Python software for resampling spectral data and associated uncertainties
               https://github.com/ACCarnall/spectres – used in 67 publications to date

AWARDS AND PRIZES

2020	Leverhulme Early Career Fellowship (3 year): £100,000
2020	Selected to attend the 70th Lindau Nobel Laureate Meeting
2019	Winton Astronomy Thesis Prize: £500
2018	International Astronomical Union Travel Bursary: £1200
2018	Scottish Universities Physics Alliance PECRE Bursary: £1500
2015	Durham University J. A. Chalmers Prize in Experimental Physics: £100

SCIENTIFIC RESPONSIBILITIES

2021−	Colloquium series organiser at Institute for Astronomy, University of Edinburgh
2020−	Multi-Object Optical and Near-IR Spectrograph (MOONS) Collaboration: coordinator of Technical Working Group 7, responsible for redshift and physical parameter determination
2019 − 2021	Extragalactic Reading Group organiser at Institute for Astronomy, University of Edinburgh

SUPERVISION OF GRADUATE STUDENTS

2019−	Co-supervisor for PhD student Massissilia Hamadouche Institute for Astronomy, University of Edinburgh, UK

TEACHING ACTIVITIES

2021−	Edinburgh University Research Methods in Physics course – advising group of 10 students
2019−	Edinburgh University BSc project supervisor (3 month research project) – 5 students to date
2018	Edinburgh University Numerical Recipes course – guest lecturer on MCMC methods
2017−	Summer Project supervisor (2 month undergraduate research project) – 5 students to date
2015 − 2019	Edinburgh University Teaching Assistant: supervised a variety of tutorials and labs

REVIEWING ACTIVITIES

2020−	Reviewer for Monthly Notices of the Royal Astronomical Society and Astrophysical Journal

RECENT INVITED PRESENTATIONS

Mar 2023	Invited review: Early Results from JWST, Kavli Institute for Cosmology Cambridge, UK
Jun 2022	Invited review: Dawn Summit, Cosmic Dawn Center, Denmark
Apr 2022	Invited colloquium: STScI + Johns Hopkins University, USA
Mar 2022	Invited review: The Growth of Galaxies in the Early Universe - VII, Sexten CfA, Italy
Feb 2022	Invited talk + coding session: Copenhagen Winter School, Cosmic Dawn Center, Denmark
Nov 2021	Invited colloquium: Warwick University, UK
Apr 2021	Invited talk + coding sessions: Multi-object Spectroscopy for Galaxy Evolution, STScI, USA
Mar 2021	Invited colloquium: Nottingham University, UK
Jun 2020	Invited colloquium: Oxford University, UK