Dr Adam Carnall – Curriculum Vitae

PERSONAL INFORMATION

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PUBLICATION STATISTICS

Number of refereed journal publications: 29 (of which 6 as first author)
h-index: 19 (via NASA ADS 16/06/2022) – 1060 total citations (of which 424 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 64 publications to date

2017 **SPECTRES** – Python software for resampling spectral data and associated uncertainties
https://github.com/ACCarnall/spectres – used in 59 publications to date

AWARDS AND PRIZES

2020 Leverhulme Early Career Fellowship (3 year): £93,000

2020 Selected to attend the $70^{\rm th}$ 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) – 4 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

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

Mar 2022 Invited talk: Compact and Massive Galaxies Across the Universe, 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