

# Adam Carnall

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<b>2015 - 2019</b>	<b>Royal Observatory Edinburgh – PhD in Astrophysics</b> Thesis: The star-formation histories of massive quiescent galaxies Supervisors: Prof. Ross McLure and Prof. James Dunlop
<b>2011 - 2015</b>	<b>Durham University – MPhys Physics and Astronomy</b> First class honours: final mark 82% Thesis: A new search for high-redshift quasars Supervisor: Prof. Tom Shanks
<b>2007 - 2011</b>	<b>Thirsk School and Sixth Form College</b> A-Levels: A*A*A*A* in Physics, Maths, Further Maths and Chemistry AS-Levels: AA in Geography and General Studies GCSEs: Eight A* grades and two A grades

## First-Authored Publications

- How to measure galaxy star formation histories I. parametric models, A. C. Carnall et al. *ApJ*, 873, 44, March 2019. [doi:10.3847/1538-4357/ab04a2](https://doi.org/10.3847/1538-4357/ab04a2)
- Inferring the star formation histories of massive quiescent galaxies with BAGPIPES: evidence for multiple quenching mechanisms, A. C. Carnall et al. *MNRAS*, 480, 4379–4401, November 2018. [doi:10.1093/mnras/sty2169](https://doi.org/10.1093/mnras/sty2169)
- SpectRes: A Fast Spectral Resampling Tool in Python, A. C. Carnall. arXiv:1705.05165, May 2017
- Two bright  $z > 6$  quasars from VST ATLAS and a new method of optical plus mid-infrared colour selection., A. C. Carnall et al. *MNRAS*, 451, L16–L20, July 2015. [doi:10.1093/mnrasl/slv057](https://doi.org/10.1093/mnrasl/slv057)

## Coauthored Publications

- How to measure galaxy star formation histories II: Nonparametric models, J. Leja et al. arXiv:1811.03637, November 2018
- The VANDELS ESO public spectroscopic survey, R. J. McLure et al. *MNRAS*, 479, 25–42, September 2018. [doi:10.1093/mnras/sty1213](https://doi.org/10.1093/mnras/sty1213)
- The VANDELS ESO public spectroscopic survey: Observations and first data release, L. Pentericci et al. *A&A*, 616:A174, September 2018. [doi:10.1051/0004-6361/201833047](https://doi.org/10.1051/0004-6361/201833047)
- Two more, bright,  $z > 6$  quasars from VST ATLAS and WISE, B. Chehade et al. *MNRAS*, 478, 1649–1659, August 2018. [doi:10.1093/mnras/sty690](https://doi.org/10.1093/mnras/sty690)
- The VANDELS survey: dust attenuation in star-forming galaxies at  $z = 3-4$ , F. Cullen et al. *MNRAS*, 476, 3218–3232, May 2018. [doi:10.1093/mnras/sty469](https://doi.org/10.1093/mnras/sty469)

## Talks and Presentations

<b>Mar 2019</b>	Talk	Geneva Observatory, Switzerland
<b>Jan 2019</b>	Talk	The growth of galaxies in the early Universe V, Sexten, Italy
<b>Nov 2018</b>	Talk	IAU Symposium 341: Challenges in panchromatic galaxy modelling with next generation facilities, Osaka University, Japan
<b>Oct 2018</b>	Lunch talk	University of St Andrews, UK

<b>Oct 2018</b>	Seminar	Royal Observatory Edinburgh, UK
<b>Sep 2018</b>	Talk	VANDELS collaboration meeting, Arcetri Observatory, Florence, Italy
<b>Apr 2018</b>	Invited talk	The art of measuring galaxy physical parameters, UC Riverside, USA
<b>Jan 2018</b>	Talk	The growth of galaxies in the early Universe IV, Sexten, Italy
<b>Jan 2018</b>	Talk	Durham Edinburgh Extragalactic Conference XIV, Durham, UK
<b>Nov 2017</b>	Talk	Royal Society of Edinburgh Cormack Meeting, Edinburgh, UK
<b>Sep 2017</b>	Talk	VANDELS collaboration meeting, Bologna Observatory, Italy
<b>Jun 2017</b>	Invited talk	Advances in Galaxy Evolution with Surveys, Ringberg Castle, Germany
<b>Jun 2016</b>	Poster	32nd IAP Colloquium: Cosmic dawn of galaxy formation: linking observations and theory with new-generation spectral models, Paris, France
<b>Jan 2016</b>	Talk	Durham Edinburgh Extragalactic Conference XII, Durham, UK

## Awards and Prizes

<b>2018</b>	<b>Scottish Universities Physics Alliance PECRE Bursary</b> Funding for five week visit to Harvard-Smithsonian Center for Astrophysics
<b>2015</b>	<b>Durham University J. A. Chalmers Prize in Experimental Physics</b> Awarded for best MPhys research project
<b>2015</b>	<b>Durham University Summer Research Placement Bursary</b> Funding for six week summer research project
<b>2014</b>	<b>Institute of Physics Top 50 Award: Southampton University</b> Funding for eight week summer research project
<b>2013</b>	<b>Oxford University Summer Research Programme</b> Funding for eight week summer research project
<b>2013</b>	<b>Leicester University SURE Bursary</b> Funding for six week summer research project

## Teaching and Supervision

<b>2018</b>	<b>Edinburgh University Numerical Recipes Course</b> Guest lecture on Markov chain Monte Carlo methods
<b>2018</b>	<b>St. Andrews University Research Methods Course</b> Guest lecture on galaxy star-formation histories
<b>2018</b>	<b>Edinburgh University Physics Summer Scholarship</b> Student: Jamie Yellen Project: Advanced Bayesian methods for galaxy spectral fitting
<b>2017</b>	<b>Royal Society of Edinburgh Cormack Research Scholarship</b> Student: Joe Cairns Project: SCUBA-diving into the deep universe: the origins of massive galaxies
<b>2015 - 2019</b>	<b>Edinburgh University Teaching Assistant</b> Supervised tutorials and labs for a variety of courses