

# Qianjun Hang

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## Education

**2017-2021** PhD student in Cosmology, University of Edinburgh

**(expected)** *SUPA (Scottish University Physics Alliance) Prize Studentship*  
*Edinburgh Global Research Scholarship*  
*Higgs Scholarship*

**2013-2017** MMathPhys (Masters in Mathematical and Theoretical Physics), University of Oxford

*First class*  
*Mansfield College Principal's Prize*  
*Mansfield College Science Prize*  
*Scholar for distinction in exams*

## Research Interests & Skills

**Interests** Large Scale Structure formation, galaxy survey, CMB cross-correlation, cosmic voids

**Skills** Extensive experience with astronomical data processing & photometric redshift estimation;  
Expertise in Bayesian statistics, MCMC, and parameter estimation;  
Working knowledge in scientific computing e.g., parallel programming and clusters;  
Fluent in Python and Bash, and familiar with Fortran, C++, and Matlab;  
Proficient in modeling of RSD, weak lensing, and ISW effects.

## Publications

1. *Galaxy clustering in the DESI Legacy Survey and its imprints on the CMB*  
Q. Hang, S. Alam, J. A. Peacock, Y. Cai (2020), MNRAS (accepted)  
<https://arxiv.org/abs/2010.00466>
2. *Galaxy and Mass Assembly (GAMA): Redshift-space distortions in galaxy-group cross-correlations*  
Q. Hang, J. A. Peacock, S. Alam, K. Kraljic, et al. In preparation to submit to MNRAS  
[https://www.dropbox.com/s/6uknwqcvlwqxs7/RSD\\_in\\_galaxy\\_group\\_cross\\_correlations.pdf?dl=0](https://www.dropbox.com/s/6uknwqcvlwqxs7/RSD_in_galaxy_group_cross_correlations.pdf?dl=0)
3. *Stacked CMB lensing and ISW signal around super structures in the DESI Legacy Survey*  
Q. Hang, S. Alam, J. A. Peacock, Y. Cai, (2020), In prep.

## Presentations & Workshops

### Talks

- Oct 2020** DESI lunch, Lawrence Berkeley National Laboratory  
*Galaxy clustering in Legacy Survey and its imprints on the CMB*
- Jan 2019** Durham-Edinburgh Extragalactic Workshop (DEX-XV), Edinburgh  
*Redshift-space distortion with different galaxy colour and group mass*

### Posters

- Sep 2020** Royal Astronomical Society Early Career Poster Exhibition, online
- Jan 2020** SUPA Cormack Meeting, Edinburgh
- Jun 2019** CosmoGold Conference, Paris  
Cosmic Web Conference, Edinburgh

### Workshops

- Oct 2019** DESI UK Meeting, London
- Jul 2018** Large Scale Structure Summer School, Berlin

## Professional services

- Organizer for the local Large Scale Structure weekly journal club
- Organizer for the local PhD Cosmology reading group
- Volunteer for the Royal Observatory Edinburgh Open Day

## Teaching

Teaching Assistant (TA) at the University of Edinburgh for:

- Discovering Astronomy (first year)
- Advanced Cosmology (forth year)
- General Relativity (forth year)
- Modern Quantum Field Theory (forth year)
- Gauge Theories in Particle Physics (forth year)