# Husni Almoubayyed

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**EDUCATION**

*BSc (Hons) Physics with Astrophysics, with Honours of the First Class.* 2012 - 2016
University of Glasgow, Glasgow, UK.

*PhD, Physics*        2016 - 2021
Carnegie Mellon University, Pittsburgh, PA.

**RESEARCH**

*McWilliams Center for Cosmology, Carnegie Mellon Univ.*    January 2017 − Present

LSST − *Supervisor: Rachel Mandelbaum*

*Institute for Gravitational Research, Univ. of Glasgow*    Oct 2015 − Present

LIGO − Investigating gravitational waves from the sun. *Supervisor: Matthew Pitkin*

*Institute for Computational Cosmology, Durham Univ.*    Jun 2015 − Sep 2015

DESI − Mitigating redshift incompleteness for galaxies that are not assigned fibres in the BGS survey. *Supervisor: Shaun Cole*

**TALKS AND SEMINARS**

- Challenges in DESI Fibre Assignment. *Institute for Computational Cosmology, Durham University, UK.*    September 11, 2015
- DESI Fibre Assignment and Mitigating Redshift Incompleteness. *12th International Symposium on Cosmology and Particle Astrophysics, Daejeon, South Korea.*    October 12-16, 2015
- Solar Gravitational Waves. *University of Glasgow, UK*    December 1, 2015

**CONFERENCE POSTERS**

- Shaun Cole, Alex Smith, Husni Almoubayyed. Large Scale Halo Light Cones. *MPA/ESO/MPE/Excellence Cluster Universe Joint Conference: Theoretical and Observational Progress on Large-scale Structure of the Universe. Garching, Germany.*    July 20-24, 2015

**TEACHING**

- Teaching Assistant, *University of Glasgow*, Glasgow, UK.
  - ☐ Physics 1    AY 2016 − 2017
  - ☐ Physics 2    AY 2016 − 2017
- Teaching Assistant, *Carnegie Mellon University*, Pittsburgh, PA

<table>
<tr><td></td><td>☐ 33-121 Physics 1 for Science Students.</td><td>Fall 2016</td></tr>
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       ∗ Rewrote computer labs for Fall 2017
        Available at www.github.com/hsnee/Jupyterize33121

     ☐ 33-122 Physics 2 for Biology and Chemistry Students.    Spring 2017

**GRANTS AND AWARDS**

- Royal Astronomical Society travel grant.        August 2015

**COMPUTATION**

- *Github:* www.github.com/hsnee

- *Programming Languages:* Python (IPython, Pandas, IPyParallel, ML, Fenics), C (CUDA), Matlab, Mathematica.

**LEARNED SOCIETIES AND AFFILIATIONS**

- *Royal Astronomical Society*, Fellow.       May 2015 − Present

- *American Physical Society*, Student Member.

- *Institute of Physics (UK)*, Student Member.

- *International Society on General Relativity and Gravitation*, Student Member.

Formerlly:
- *LIGO Scientific Collaboration*, Member.    October 2015 − September 2016

- *Institute of Mathematics and Its Applications*, Student Member.    November 2015 − December 2016

**OUTREACH**

- I was an official media reporter for Glasgow Science Festival 2015, and wrote articles for the multi award-winning science communication magazine, The GIST (Glasgow Insight into Science & Technology)      June 2015

- I joined the STEM Ambassador program and became a STEM Ambassador for the West of Scotland in spring 2015; taking part in events at schools to encourage young students to pursue STEM topics.    May 2015 − June 2016

- Specialist Editor on astrophysics articles for The GIST. March 2016 − Present

- I became an Assistant Officer for UKSEDS in summer 2015, part of the international SEDS student space society, which supports students to get involved in projects, conferences and outreach events.    July 2016 − March 2016

- I am a member of WikiProject Physics. An online collaborative effort to increase the quality, breadth, and depth of wikipedia articles on the physical sciences.    July 2016 − Present