Husni Almoubayyed

5000 Forbes Ave, Doherty Hall MA333 Pittsburgh, PA 15213 phone: +44 (0)7988-323-195

email: husnial@cmu.edu website: www.husni.space

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

 ${
m LIGO-I}$ worked on gravitational wave data analysis, particularly on investigating potential gravitational wave signal from the sun emitted by a magnetohydrodynamic dynamo. Supervisor: Matthew Pitkin

Institute for Computational Cosmology, Durham Univ. Jun 2015 — Sep 2015

DESI – I worked on fibre assignment in the Dark Energy Spectroscopic Instrument (DESI)'s Bright Galaxy Survey (BGS) group, investigating the impact of galaxy clustering on redshift incompleteness caused by galaxies that are not assigned fibres. 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 \square Physics 2 AY 2016 - 2017 • Teaching Assistant, Carnegie Mellon University, Pittsburgh, PA \square 33-121 Physics 1 for Science Students. Fall 2016 * Rewrote computer labs for Fall 2017 Available at www.github.com/hsnee/Jupyterize33121 \square 33-122 Physics 2 for Biology and Chemistry Students. Spring 2017 **GRANTS AND** • Royal Astronomical Society travel grant. August 2015 AWARDS SUMMER • Next Generation Computational Modelling Summer Academy University of SCHOOLS AND Southampton, Southampton, UK. [Bursary funded] Summer 2016 WORKSHOPS • Next Generation Computational Modelling Summer Academy University of Southampton, Southampton, UK. [Bursary funded] Summer 2015 • 71st Scottish Universities Summer School in Physics University of Strathclyde, Glasgow, UK. [Bursary funded] Summer 2015 COMPUTATION • Github: www.github.com/hsnee • Programming Languages: Python (IPython, Pandas, IPyParallel, ML, Fenics), C (CUDA), Matlab, Mathematica. LEARNED • Royal Astronomical Society, Fellow. May 2015 - Present SOCIETIES AND **AFFILIATIONS** • American Physical Society, Student Member. • Institute of Physics (UK), Student Member.

Formerlly:

• LIGO Scientific Collaboration, Member. October 2015 - September 2016

• International Society on General Relativity and Gravitation, Student Member.

• Institute of Mathematics and Its Applications, Student Member. November 2015 — December 2016

OUTREACH

- Glasgow Science Festival, Media Reporter. June 2015 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). Available at www.the-gist.org/author/hsneealmoubayed/
- Science Connects, STEM Ambassador. May 2015 June 2016
 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.
- The GIST, Specialist Editor. March 2016 Present I am a specialist editor for the GIST for articles on cosmology and gravitationalwave astrophysics.
- UKSEDS, Assistant Officer July 2016 March 2016 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.
- WikiProject Physics Contributor
 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.