Curriculum vitae

Personal Information

NAME	Husni Almoubayyed
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Education

DATES	2012 - 2016
QUALIFICATION	BSc (Honours) Physics with Astrophysics.
INSTITUTION	**University of Glasgow,** School of Physics and Astronomy.

Research Experience

Institute for Computational Cosmology, **Durham University** (Summer 2015)

I worked with Prof. **Shaun Cole** 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.

Institute for Gravitational Research, **University of Glasgow** (4th year)

My fourth year project is on gravitational wave data analysis, particularly on investigating potential gravitational wave signal from the sun emitted by a magnetohydrodynamic dynamo. I am working within Glasgow's *Institute for Gravitational Research* and with Dr. **Matthew Pitkin** and Prof. **Graham Woan.**

Talks and Seminars

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

Computational Skills

- Python
- Matlab
- C/C++
- Finite Element Analysis (FEniCs/Dolfin)
- Mathematica
- Latex
- GPU Programming (CUDA/OpenACC)
- Unix

Teaching Experience

- Teaching Assistant ["Peer Teacher"] (2015-2016) to Physics 1 and 2. (Class Heads: Dr. **Peter Sneddon**). Taken as an extra credit-bearing module at the University of Glasgow.

Grants

- Royal Astronomical Society travel award.

Summer Schools and Workshops

- Next Generation Computational Modelling Summer Academy (Summer 2015), **University of Southampton**, Southampton, UK. [Bursary funded]

- 71st Scottish Universities Summer School in Physics (Summer 2015) **University of Strathclyde**, Glasgow, UK. [Bursary funded]

Advanced Coursework

Currently (4th Year):

- High Energy Astrophysics
- Galaxies
- Nuclear and Particle Physics
- Nuclear Physics
- Particle Physics
- Quantum Theory
- Solid State Physics
- Atomic Systems
- Mathematical Methods 2

Previously (3rd Year):

- Cosmology [A1]
- Optical and Radio Astronomy [A1]
- Waves and Diffraction [A1]
- Electromagnetic Theory 1 [A1]
- Circuits and Systems [A1]
- Quantum Mechanics [A1]
- Thermal Physics [A1]
- Mathematical Methods 1 [A1]

[*A1 = 22 is the highest achievable grade on the University of Glasgow's 22-point scale.]

Learned Societies and Affiliations

- Royal Astronomical Society, Fellow.
- LIGO Scientific Collaboration, Member
- American Physical Society, Student Member.
- Institute of Physics (UK), Student Member.
- International Society on General Relativity and Gravitation, Student Member.

Outreach Activities

- STEM Ambassador (West of Scotland), May 2015 - Present
- Glasgow Science Festival 2015 official reporter and writer for Glasgow-based award-winning science communication magazine theGist.
- UKSEDS Assistant Careers Officer, June 2015 - Present.