Dr Jonathan Beaumont MEng PhD

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Work Experience

April 2018 - Present

Postdoc Research Associate, Imperial College London
- Working on the POETS project (poets-project.org) developing applications for an event-driven parallel architecture featuring thousands of hyper-threaded RISC-V cores embedded in a fast communications infrastructure.
- This project requires collaboration with colleagues at Imperial College and at other UK universities: Cambridge, Newcastle and Southampton.
- Developing asynchronous algorithms using the communications infrastructure of POETS, allowing applications to use decentralized synchronisation.
- Researching and developing a Dissipative Particle Dynamics simulator for the POETS platform, which models the behaviours of complex fluids at a molecular level.

September 2017 – March 2018

Guest Relations Staff Member, The O2, London
- Working in a large team at The O2 and assisting with the security staff to ensure customers have a safe, secure and enjoyable event.

September 2014 - July 2017

Postgraduate Demonstrator, Newcastle University
- Aid in the teaching of undergraduate students in practical sessions.

Education

September 2014 - January 2018

PhD Computer Engineering, Newcastle University
- My main research interest is in asynchronous methods for software and design, verification properties and synthesis of asynchronous circuits.

September 2010 - July 2014

Electronic and Computer Engineering MEng, Newcastle University
First Class Honours
- This degree included both computer science and electronics modules and provided opportunities for projects to use learned skills from both disciplines.

September 2008 - July 2010

Greenhead College, Huddersfield
A-Levels: Computing A, Mathematics B, Physics B - AS level: Chemistry B

September 1995 - July 2008

Huddersfield Grammar School, Huddersfield
10 GCSEs at A* - C grades

Core Skills

- Fluent programming languages: C++, C, Python, Java, JavaScript.
- Familiar programming languages: Haskell, Assembly.
- Knowledge of Git and GitHub for version control and collaboration (github.com/jrbeaumont).
- Time-management gained through self-regulation of my workload during my PhD.
- Scientific communication skills through writing papers and articles and presenting my work.
- Collaborative working with colleagues both in-person and virtually.

References available on request