

OLLIE HANTON

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EDUCATION

Bristol University

PhD in Human Computer Interaction

November 2018 - present

Bristol University

Computer Science MSc

September 2016 - October 2017

Distinction

Bristol University

Mathematics BSc

September 2012 - 2016

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PHD IN HUMAN COMPUTER INTERACTION (WORK IN PROGRESS)

I am currently working on a PhD in Human Computer Interaction, exploring display fabrication and ways that we can use additive manufacturing techniques to create screens. In particular I am looking at using spraying as a method for creating displays with irregular topologies and what applications can be realised using this method.

Publications:

- **Hanton, O.**, Wessely, M., Mueller, S., Fraser, M., Roudaut, A. *ProtoSpray: Combining 3D Printing and Spraying to Create Interactive Displays with Arbitrary Shapes*, **CHI 2020** proceedings.
- Wessely, M., Sethapakdi, T., Castillo, C., Snowden, J.C., **Hanton, O.**, Qamar, I.P., Fraser, M., Roudaut, A. and Mueller, S., *Sprayable User Interfaces: Prototyping Large-Scale Interactive Surfaces with Sensors and Displays*, **CHI 2020** proceedings.

Funding:

- Researcher in Brigstow seedcorn grant project: total £5000
- Securing of internal funding to department for a new 3D printer: £968
- EPSRC funded PhD

Awards:

- Honourable mention - ProtoSpray: CHI 2020 proceedings (April 2020)
- University of Bristol 3 Minute thesis - Runner up (May 2019)

Teaching:

- Teaching assistant in masters level modules: Computer Architecture COMSM1302, Interactive Devices COMSM0009.
- Management of a student intern (June 2019 - August 2019)

ACADEMIC BACKGROUND

Computer Science MSc:

- Research project: Creating Interactive Prototypes and Surfaces Using Capacitive Technology and 3D Printing (2017), focusing on developing new technologies and Human-Computer-Interaction.

- Worked with a range of multimedia 3D printers and developed an object processing program in Java. This involved work with hardware (electronics, Ultimaker, Lulzbot) and software (Java, Blender, Sketchup, Meshmixer).
- Carried out quantitative research for the technology as well as qualitative research with professional Architects.
- Executed many written reports and programming assignments to a high level such as modules on Research Skills (86%), Computer Architecture (82%), Object Oriented Programming (73%)

Mathematics BSc:

- Broad mathematical expertise through the choice of a range of applied modules including Statistics, Mechanics and Computational Mathematics solidifying my grasp on real-world maths.
- Dissertation on ‘The Mathematics Behind Google’ (2016), covering techniques for a range of data handling techniques and processes.

Extra Curricula:

- Bristol PLUS Award (2015)
- Bristol PLUS Outstanding Award (2015)
- Leadership in Sports Award Level 2 (2014)

TECHNICAL STRENGTHS

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|-----------------------------|---|
| Computer Languages | C, Java, C#, R, MATLAB |
| Software & Tools | Android, Xamarin, LaTeX, Gimp, Blender, Meshmixer |
| Mathematics | Mechanics, Differential equations, Group Theory |

EMPLOYMENT AND EXPERIENCE

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| SciSys <i>Software Developer</i> | 5th February 2018 - 26th October 2018 |
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- Main project: developing a phone and tablet application on Android, using Xamarin, working in C# from a C++ IOS codebase.
 - Solely responsible for the development side of the project including targets, testing and bug fixing for four months, subsequently working alongside another developer.
 - Tasks included:
 - Responsibility for the code base and source control.
 - Continuous restructuring of large sections of the app.
 - Liaising and prioritizing with the customer to deal with updating requirements.
 - Working with specialist app developers on a short-term basis.
 - Learning app development while on the project and applying it directly, while working to a schedule.
 - Passed 6 month probation period with written appreciation/bonus for doing ‘outstanding’ work and going ‘above-and-beyond’.

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| Placr <i>Intern</i> | July 2014 & August 2015 |
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- • Manipulation, processing and repackaging of transport data in developing a national geometry of transport links including multiple presentations to the whole company.
- Reviewing transport data functionality in HTML for platform (TransportAPI).

University of Bristol Boat Club

13th May 2013 - 22nd June 2014

Head Coach for the Senior Women's Rowing Team (part time, volunteer position)

- • 550+ hours volunteering work teaching rowing to students, as well as coordinating and organising a coaching team.
- Work included budget management, liaison with local organisations and responsibility of 8-32 athletes.

Dulwich Storage Ltd

Intermittent 2010 - 2013

Administrative Assistant (part time)

- • Managing contractor invoices and company accounts.
- Web development: building additional features for an existing site (HTML and SQL).