

## Summary

Interdisciplinary researcher, focused on human-computer interaction, user behaviour, and digital markets at internet-scale. Extensive experience in both commercial and academic settings, is supported by a broad, practical skill set embracing a wide array of opensource and proprietary technologies. With a proven track record of designing, developing, and managing projects from conception through completion, suited not only to hands-on research and systems development, but also broader project management and backed by strong interpersonal skills.

## Education

PhD in Engineering at University of Cambridge 2014 – 2018

Formerly, PhD in Computer Science at University of St Andrews

### Microtask Design: Value, Engagement, Context, and Complexity

Interdisciplinary research focusing on the emerging digital labour force, with robust quantitative, statistical analysis. Topics include improving understanding of financial motivations, aesthetic and practical considerations, improving the user experience, and expanding the potential uses of such web-based platforms. Additional focus on ethics, mobile and sensor technologies, comprehensive telemetry and instrumentation, and exploratory work on complex *macrotasks* and programmer behaviour. Supervised by Dr Per Ola Kristensson.

BSc (Hons) Information Systems (1<sup>st</sup>) at Brunel University 2008 – 2012

Included "Constructions of Programs", "Business Computing", "Professional Software Practice", "Database Systems", and "e-Commerce." Recipient of the Blackwell Publishing Prize for best written undergraduate dissertation.

## Experience

Research Associate at University of Cambridge Dec '16 – Present

Research Associate in the [Intelligent Interactive Systems](#) group, led by Dr Per Ola Kristensson. Areas of interest include a wide variety of research topics including crowdsourcing, software development, ubiquitous computing, and interface design. Current work involves the investigation and application of mobile crowdsourcing, user interface optimisation, machine learning, and the facilitation and application of virtual and augmented reality.

**Tutoring and Assessment at University of Cambridge**

Dec '16 – Present

Group leader for the Crowdsourcing session for the Engineering Design Reading Group for postgraduate students. Assessment of student presentations for the undergraduate Product Design course.

**Tutoring and Assessment at University of St Andrews**

Sep '12 – Apr '14

**Code First: Girls**

Leading programming classes for the *Code First: Girls* programme to encourage and engage women in computer science and STEM subjects. Classes included Ruby, HTML5, CSS, Git and other modern web technologies.

**Lecture Preparation** for introductory classes on web development for undergraduate students. **Assessment** of undergraduate student presentations on a variety of Computer Science research topics.

**Consultant at Jason Jacques Consultancy**

Dec '18 – Present

Formerly, Freelance Consultant (Sep '07 – Jan '08; Dec '16 – Dec '18)

Various projects on a freelance or consultancy basis including network architecture, systems integration, bespoke web-applications, and proprietary prototypes for web, mobile, and VR in various development languages. Contracts include clients such as AOL, Huawei, and the University of Cambridge.

## Publications

**Jacques, J.T.** and Kristensson, P.O. 2019. Crowdsourcing Economics in the Gig Economy. In *CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2019)*. ACM Press: Paper 391. <https://doi.org/10.1145/3290605.3300621>

Dudley, J.J., **Jacques, J.T.** and Kristensson, P.O. 2019. Crowdsourcing Interface Feature Design with Bayesian Optimization. In *CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2019)*. ACM Press: Paper 252. <https://doi.org/10.1145/3290605.3300482>

**Jacques, J.T.** (2018). Microtask Design: Value, Engagement, Context, and Complexity (Doctoral thesis). University of Cambridge. <https://doi.org/10.17863/CAM.18777>

**Jacques, J.T.** and Kristensson, P.O. 2017. Design Strategies for Efficient Access to Mobile Device Users via Amazon Mechanical Turk. In *Proceedings of First ACM Workshop on Mobile Crowdsensing Systems and Applications (CrowdSenSys 2017)*. ACM Press: 26-31. <https://doi.org/10.1145/3139243.3139247>

Hirth, M., **Jacques, J.T.**, Rodgers, P., Scekcic, O. and Wybrow, M. 2017 Crowdsourcing Technology to Support Academic Research. In *Archambault D., Purchase H., Hoßfeld T. (eds) Evaluation in the Crowd. Crowdsourcing and Human-Centered Experiments. Lecture Notes in Computer Science, vol 10264*. Springer: 70-95.

[https://doi.org/10.1007/978-3-319-66435-4\\_4](https://doi.org/10.1007/978-3-319-66435-4_4)

**Jacques, J.T.** and Kristensson, P.O. 2015. Understanding the effects of code presentation. In *Proceedings of the 6th Workshop on Evaluation and Usability of Programming Languages and Tools (PLATEAU 2015)*. ACM Press: 27-30.

<https://doi.org/10.1145/2846680.2846685>

**Jacques, J.T.**, Perry, M. and Kristensson, P.O. 2015. Differentiation of online text-based advertising and the effect on users' click behavior. *Computers in Human Behavior* 50:

535-543. <https://doi.org/10.1016/j.chb.2015.04.031>

**Jacques, J.T.** and Kristensson, P.O. 2013. Crowdsourcing a HIT: measuring workers' pre-task interactions on microtask markets. In *Proceedings of the 1st AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2013)*. AAAI Press: 86-93.

<http://www.aaai.org/ocs/index.php/HCOMP/HCOMP13/paper/view/7540>

## Academic Service

**Organiser for 4<sup>th</sup> ACM SIGCHI Summer School on Computational Interaction** 2018

Lead organiser for the 4<sup>th</sup> ACM SIGCHI Summer School on Computational Interaction. Chief point of contact with attendees and with full delegated responsibility for timetabling, catering, accommodation, and more.

**Organiser and Lecturer for 1<sup>st</sup> Cambridge-Tongji Workshop on Engineering Design** 2018

Lead organiser for the 1<sup>st</sup> Cambridge-Tongji Workshop on Engineering Design. Course leader for sessions on both *Crowdsourcing in HCI* and *Systems Architecture*.

**Reviewer** 2013 – Present

Reviewer for the International Journal of Human Computer Interaction, the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI), the International Conference on Intelligent User Interfaces (IUI), the ACM Symposium on User Interface Software and Technology (UIST), and others.

**Conference Support** 2013 – Present

Conference support as Student Volunteer for the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) 2013, 2015; the ACM Interactive Tabletops and Surfaces Conference (ITS) 2013; and the ACM Symposium on User Interface Software and Technology (UIST) 2013.

## Other Experience

### Corporate Operations Engineer at Google

Feb '11 – Sep '11

Technical operations role including both development and infrastructure support:

- Development of security mitigation for well-known FireWire exploit.
- Printer driver standardisation for Mac, with a view to reducing costs.
- Support for Mac, Windows and Linux, including remote support.

### IS&T Desktop Services at Apple

Jun '10 – Nov '10

Systems architecture, development and second-line and event support including:

- Server-side system architect for wireless printing (AirPrint) for Europe.
- Development of internal tools for monitoring of servers, employee performance, backup and others.
- Event support for Apple TV re-launch.

### Systems Admin / Developer / Tech Support at JPMH

Jan '08 – Jul '09

Flexible technical consultation roll providing comprehensive services in an integrated advertising and marketing agency. Support for a mix of Windows and Mac systems, both client and server, on-site and remote. Client facing support for web services and media projects and onsite liaison for visitors. Work on websites for many high-profile brands including BlackBerry, KFC, Tesco, Nestlé, and others.

### Developer at Mirola & Rancon

Oct '06 – Aug '07

Web development and communication network development and support. Key projects included fundraising platform development for Cancer Research UK and lead developer for a proprietary investment-demo of telephone operated audio manipulation system.

## Professional Memberships

Professional Member of Association for Computing Machinery

[https://dl.acm.org/author\\_page.cfm?id=99658722807](https://dl.acm.org/author_page.cfm?id=99658722807)

## Other Achievements

Opensource software development including [MTurk Manage](#) (Amazon Mechanical Turk task management tool) and [Email](#) (cross-platform email engine for PHP). Minor contributions to [GNU config](#) and an early iteration of the HTTPS/2 standard ([SPDY](#)). Featured anniversary logo for [Slashdot](#). Featured code contribution to the MSDN blog for [Small Basic](#) promoting computer science education.

## References

Dr Per Ola Kristensson (PhD Supervisor)  
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*Further references available on request.*