

# Olivia Guest

## CONTACT

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## PROFESSIONAL EXPERIENCE

**ReScience Journal** — *Associate Editor*

**2016-**

**Software Sustainability Institute, UK** — *Fellow 2016*

**2016-**

**Department of Experimental Psychology, University of Oxford, UK**

*Postdoctoral Researcher*

**2014-2016**

- Created models for category learning in infancy.
- Tutored on the Language and Cognition module.
- Ran and developed the Block Practical: **Connectionist Models and Cognitive Processes**.

**Department of Psychological Sciences, Birkbeck, UK**

*Graduate Teaching Assistant*

**2010-2014**

- Taught on a range of courses within psychological sciences.
- Was trained to evaluate, mark, invigilate, and support part-time, mature, and full-time students.
- Managed the SONA system.
- Organised and led the **Centre for Cognition, Computation and Modelling's** seminar.

## PUBLICATIONS

**Guest, O.**, Love, B. C. (in press). What the Success of Brain Imaging Implies about the Neural Code.

**Guest, O.**, Caso, A., Cooper, R. P. (in prep). On Simulating Neural Damage in Connectionist Networks.

**Guest, O.**, Cooper, R. P. (in prep). Re-evaluating Computational Models of Semantic Deficits.

**Guest, O.**, Rougier, N. P. (2016). *What is computational reproducibility?* **IEEE CIS Newsletter on Cognitive and Developmental Systems**, 13 (1).

**Guest, O.** (2016). *Crisis in What Exactly?*. *The Winnower*.

Love, B. C., Kopeć, Ł., **Guest, O.** (2015). **Optimism Bias in Fans and Sports Reporters**. *PLoS ONE*, 10 (9).

Cooper, R. P., **Guest, O.** (2014). **Implementations are not specifications: specification, replication and experimentation in computational cognitive modeling**. *Cognitive Systems Research*, 27, 42-49.

**Guest, O.**, Cooper, R. P., Davelaar, E. J. (2014). [High-Level Cognition]. **The Influence of Implementation on "Hub" Models of Semantic Cognition**. In J. Mayor, P. Gomez (Eds.), *Computational Models of Cognitive Processes* (pp. 155-169). World Scientific.

**Guest, O.**, Cooper, R. P., Davelaar, E. J. (2012). *Semantic Cognition: A Re-examination of the Recurrent Network "Hub" Model*. In *Proceedings of the Ninth International Conference on Cognitive Modelling*. Berlin, Germany. April. (pp. 259-264). Berlin, Germany. April. Universitätsverlag der TU Berlin.

## EDUCATION

### **Birkbeck, UK**

**2010-2014**

Ph.D., Psychological Sciences, Sep 2014

- Thesis: *Towards a Unified Computational Account of Semantic Impairments*
- Primary Supervisor: *Prof. Richard P. Cooper*
- Secondary Supervisor: *Dr. Eddy J. Davelaar*

### **University College London, UK**

**2009-2010**

M.Sc., *Cognitive and Decision Sciences* (Distinction), Sep 2010

- Thesis: *Modelling Semantic Memory & Its Impairments Following Neural Damage*
- Supervisor: *Prof. Richard P. Cooper*

### **The University of York, UK**

**2006-2009**

B.Sc., *Computer Science*, Jun 2009

- Thesis: *Modelling Genetic Adaptation to Environmental Changes*
- Supervisor: *Suresh Manandhar*

## CONFERENCES

### **15th Annual Summer Interdisciplinary Conference (ASIC 2016)**

*Selva, Val Gardena, Italy*

**3-8 Jul 2016**

- Talk: *What the Success of Brain Imaging Implies about the Neural Code*.

### **14th Annual Summer Interdisciplinary Conference (ASIC 2015)**

*Mammoth Lakes, California, USA*

**10-15 Jul 2015**

- Talk: *Optimism Bias in Novice and Expert Sport Forecasting*.

### **13th Neural Computation and Psychology Workshop (NCPW 13)**

*BCBL, San Sebastian, Spain*

**12-14 Jul 2012**

- Talk: *Exploring the influence of architecture and learning algorithm on the breakdown of the "hub" model of semantic cognition*.

### **11th International Conference on Cognitive Modeling (ICCM 2012)**

*Technische Universität Berlin, Berlin, Germany*

**12-15 Apr 2012**

- Poster: *Semantic Cognition: A Re-examination of the Recurrent Network "Hub" Model*.
- Won best student poster prize (€100).

## WORKSHOPS

### **Research Data Visualisation Workshop (RDVW)**

*Software Sustainability Institute, University of Manchester*

**28 Jul 2016**

- Organised 1-day workshop with **Raniere Silva** (main organiser) and **Vince Knight**.
- Member of **steering committee**.

- Obtained funding from **RStudio**.

### **Introduction to Computational Cognitive Modelling Workshop**

**CCCM, Birkbeck**

**23-25 Apr 2014**

- Organised 3-day workshop with **Chris Brand** (co-organiser).
- Prepared slides, exercises, created website.

## TEACHING

### **Department of Experimental Psychology, University of Oxford, UK**

Postdoctoral Research Assistant

**2014-**

#### *Block Practical: Connectionist Models and Cognitive Processes*

- Module: *Third Year, B.Sc.*
- Designed course structure and materials (slides and exercises).
- Set final report wherein students replicated from scratch Tyler et al. (2000) in Python.
- Created course website: [oliviaguest.com/connectionism](http://oliviaguest.com/connectionism).

#### *Tutorial: Language and Cognition*

- Module: *Second Year, B.Sc.*
- Set essays and marked exams.

### **Department of Psychological Sciences, Birkbeck, University of London, UK**

Graduate Teaching Assistant

**2010-2014**

- Modules Taught: *General Foundations of Psychology, Psychobiology, Advanced Research Methods, Advanced Quantitative Methods, Memory and Cognition, Matlab Programming for Psychological Science,*

## MEDIA OUTREACH

### **BBC Radio 4: Today Show**

**22 Feb 2016**

- Interview: *What can we learn in 4 months?*

### **Optimism Bias in Fans and Sports Reporters**

**9 Sep 2015**

- Press Releases: **University of Oxford, UCL**
- Media Coverage: **CS Monitor, Medical Daily, MinnPost, Newsweek, Pacific Standard, Phys.org.**

## TECHNICAL SKILLS

**General:** **Website design** (HTML, CSS, CMS, Jekyll, Liquid, YAML); Graphic design (Adobe CS); GUI design (PyGTK, GTK+).

**Programming:** Ada, C, C++, C#, Java, JavaScript,  $\LaTeX$ , MATLAB, OpenGL, Pascal, PHP, Prolog, Python, R, Scheme, SQL, Visual Basic.