

# Olivia Guest

## CONTACT

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## PROFESSIONAL EXPERIENCE

**Department of Experimental Psychology, University College London, UK**

*Postdoctoral Researcher*

**2016–**

**ReScience Journal** — Associate Editor

**2016–**

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

**2016–2017**

**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

Love, B. C., **Guest, O.**, Slomka, P., Navarro, V., Wasserman, E. (2017). **Deep Networks as Models of Human and Animal Categorization**. In *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*. (pp. 1457–1458).

**Guest, O.**, Love, B. C. (2017). **What the Success of Brain Imaging Implies about the Neural Code**. *eLife*, 6:e21397.

**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.

## PREPRINTS

Rougier, N. P., Hinsén, K., Alexandre, F., Arildsen, T., Barba, L., Benureau, F. C., ..., **Guest, O.,** ... & Zito, T. (2017). **Sustainable computational science: the ReScience initiative.** *arXiv.*

**Guest, O.,** Love, B. C. (2016). **What the Success of Brain Imaging Implies about the Neural Code.** *bioRxiv.*

## 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

## CONFERENCES

### **39th Annual Meeting of the Cognitive Science Society (CogSci 2017)**

London, UK **26–29 Jul 2016**

- Talk: *Deep Networks as Models of Human and Animal Categorization.*

### **16th Annual Summer Interdisciplinary Conference (ASIC 2017)**

Interlaken, Switzerland **15–20 Jul 2017**

- Talk: *Deep Networks as Models of Human and Animal Categorization.*

### **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).

## INVITED TALKS

### Centre for Language Studies

*Radboud University, The Netherlands*

8 Mar 2017

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

### London Judgement and Decision Making Seminars

*University College London, UK*

8 Feb 2017

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

### Summerfield Lab

*University of Oxford, UK*

23 Nov 2016

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

## 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+); Artificial neural networks (e.g., TensorFlow); Unix administration (e.g., command line, LAMP web server), Eye-tracking (data collection and analysis).

**Programming:** Ada, C, C++, C#, Java, JavaScript, ~~La~~TeX, MATLAB, OpenGL, Pascal, PHP, Prolog, Python, R, Scheme, SQL, Visual Basic.