

## Olivia Guest

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### CONTACT INFORMATION

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### PROFESSIONAL EXPERIENCE

#### **ReScience Journal**

*Associate Editor*

**2016 to Present**

#### **Software Sustainability Institute, UK**

*Fellow 2016*

**2016 to Present**

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

*Postdoctoral Researcher*

**2014 to Present**

- 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, University of London, UK**

*CCCM Reading Group Seminar Leader*

**2013 to 2014**

- Organised and led the CCCM's seminar.
- Selected and discussed relevant journal articles in computational cognitive (neuro)science.
- Invited colleagues to present their modelling work.
- Presented various modelling methodologies.

*Graduate Teaching Assistant*

**2010 to 2014**

- Taught on a range of courses within psychological sciences (see section above for details on teaching experience).
- Provided support to students both within the course framework and in private tutorials.
- Was trained to evaluate, mark, invigilate, and support part-time, mature, and full-time students.
- Managed the SONA system, specifically to aid students with collecting credits in exchange for hours of experiments undertaken.

### PUBLICATIONS

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

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

**Guest, O.**, Rougier, N. P. (in press). What is computational reproducibility?

**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, University of London, UK**

Ph.D. in Computational Cognitive Neuroscience, September 2014

- Thesis: *Towards a Unified Computational Account of Semantic Impairments*
- 1st Supervisor: *Prof. Richard P. Cooper*
- 2nd Supervisor: *Dr. Eddy J. Davelaar*

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

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

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

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

B.Sc., Computer Science, June 2009

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

## CONFERENCES

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

*Selva, Val Gardena, Italy*

**3-8th July, 2016**

- Presented a talk: *What the Success of Brain Imaging Implies about the Neural Code.*

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

*Mammoth Lakes, California, USA*

**10-15th July, 2015**

- Presented a talk: *Optimism Bias in Novice and Expert Sport Forecasting.*

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

*BCBL, San Sebastian, Spain*

**12-14th July, 2012**

- Presented a talk: *Exploring the influence of architecture and learning algorithm on the breakdown of the “hub” model of semantic cognition.*

TEACHING  
EXPERIENCE

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

*Technische Universität Berlin, Berlin, Germany*

**12-15th April, 2012**

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

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

**Position:** Postdoctoral Research Assistant

**Duration:** 2014 to present

*Block Practical: Connectionist Models and Cognitive Processes*

**2015**

- Module Course Year: *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*

**2015**

- Module Course Year: *First Year, B.Sc.*
- Set presentations, essays, etc.
- Marked exams

**Introduction to Computational Cognitive Modelling Workshop**, Centre for Cognition, Computation and Modelling, Birkbeck, University of London **2014**

- Organised and ran 3-day workshop with Chris Brand
- Prepared slides and exercises

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

**Position:** Graduate Teaching Assistant

**Duration:** 2010 to 2014

*General Foundations of Psychology*

**2010 to 2014**

- Module Course Year: *First Year, B.Sc.*
- Module Tutor: *Dr. Simon Green*
- Led the course seminar.
- Marked exam essays.

*Psychobiology*

**2010 to 2014**

- Module Course Year: *First Year, B.Sc.*
- Module Tutor: *Dr. Simon Green*
- Marked exam essays.

*Introduction to Research Methods*

**2010 to 2014**

- Module Course Year: *First Year, B.Sc.*
- Module Tutors: *Dr. Emma Meaburn and Dr. Marie L. Smith*
- Taught introductory statistics and scientific research skills.
- Ran laboratory and practical classes.
- Ran drop-in help sessions.
- Marked and invigilated exams and lab reports.

*Advanced Research Methods*

**2011 to 2014**

- Module Course Year: *Third and Fourth Year, B.Sc.*
- Module Tutors: *Dr. Tim J. Smith and Dr. Matthew Longo*

- Taught advanced year statistics and scientific research skills.
- Advised groups of students on how to carry out their mini projects.
- Marked mini projects.

*Advanced Quantitative Methods* **2011 to 2014**

- Module Course Year: *Second Year, M.Sc.*
- Module Tutors: *Prof. Richard P. Cooper and Dr. Ted D. Barker*
- Taught M.Sc.-level statistics and scientific research skills.
- Ran drop-in help sessions.
- Marked worksheets.

*Memory and Cognition* **2010 to 2014**

- Module Course Year: *Third and Fourth Year, B.Sc.*
- Module Tutor: *Dr. Eddy J. Davelaar*
- Marked exam essays.

*Matlab Programming for Psychological Science* **2011 to 2014**

- Module Course Year: *Ph.D.*
- Module Tutors: *Prof. Richard P. Cooper and Dr. Marie L. Smith*
- Taught general principles of Matlab programming for psychological experimentation and data management.

## LABORATORY MEMBERSHIP

**Oxford BabyLab** **2014 to Present**

Department of Experimental Psychology, University of Oxford

**Centre for Cognition, Computation and Modelling (CCCM)**

**2010 to 2014**

Department of Psychological Sciences, Birkbeck, University of London

**Computational Cognitive Neuroscience Laboratory (CCNL)**

**2010 to 2014**

Department of Psychological Sciences, Birkbeck, University of London

**Dynamic Memory and Cognition Laboratory (DMC)**

**2010 to 2014**

Department of Psychological Sciences, Birkbeck, University of London

**Mace Experimental Research Laboratories in Neuroscience (MERLiN)**

**2010 to 2014**

Department of Psychological Sciences, Birkbeck, University of London

## SCIENTIFIC OUTREACH

**BBC Radio 4: Today Show** **22nd February, 2016**

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

**Optimism Bias in Fans and Sports Reporters** **9th September, 2015**

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

## TECHNICAL SKILLS

**General:** Website design and implementation (HTML, CSS, content management systems, web servers), software and hardware tech support, graphic design, GTK GUI design.

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