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 prep). What the Success of Brain Imaging Implies about the Neural Code.
Preprint: bioRxiv 071076. doi: http://dx.doi.org/10.1101/071076.

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.

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, LaTeX, MATLAB, OpenGL, Pascal, PHP, Prolog, Python, R, Scheme, SQL, Visual Basic.