Olivia Guest

Contact Information

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Twitter: o_guest

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? [CogPrints preprint]

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 Reexamination 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.*

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).

Research Data Visualisation Workshop (RDVW), Software Sustainability Institute and University of Manchester **July 28th, 2016**

- Helped organise 1-day workshop with Raniere Silva (main organiser) and Vince Knight

- Member of steering commitee

- Obtained funding from RStudio

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 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 at al (2000) in Python
- Created course website: oliviaguest.com/connectionism

Tutorial: Language and Cognition **2015**

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

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?*

- 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, LaTeX, Lisp (Scheme), MATLAB, OpenGL, Pascal, PHP, Prolog, Python, R, SQL, Visual Basic.