

Olivia Guest

CONTACT

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PROFESSIONAL EXPERIENCE

Department of Experimental Psychology, University College London, UK

Postdoctoral Researcher

2016–

ReScience Journal – *Associate Editor*

2015–

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

Rougier, N. P. et al. (2017). [Sustainable computational science: the ReScience initiative](#). *PeerJ Computer Science*.

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. et al. (2017). Sustainable computational science: the ReScience initiative. *arXiv*.

Guest, O., Kanayet, F. J., & Love, B. C. (2017). *Gerrymandering and Computational Redistricting*. *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*
- 1st Supervisor: Prof. Richard P. Cooper
- 2nd 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

INVITED TALKS

Thirty-fifth International Conference on Machine Learning (ICML 2018)

Workshop: *Enabling Reproducibility in Machine Learning MLTrain@RML*

Stockholm, Sweden

14 Jul 2018

- *Varieties of Reproducibility in Empirical and Computational Domains*.

Open Data Day 2018

Goldsmiths, University of London, UK

3 Mar 2018

- *Gerrymandering and Computational Redistricting*.

Cognitive Neuroscience Friday Seminar (FriSem)

Stanford University, California, USA

16 Feb 2018

- *How deep networks contribute to our understanding of human and animal representation in categorization*.

Research Programming Technical Social

University College London, UK

15 Nov 2017

- *Gerrymandering and Computational Redistricting.*

Centre for Language Studies

Radboud University, The Netherlands

8 Mar 2017

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

London Judgement and Decision Making Seminars

University College London, UK

8 Feb 2017

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

Summerfield Lab

University of Oxford, UK

23 Nov 2016

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

CONFERENCE PRESENTATIONS

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

London, UK

26–29 Jul 2017

- 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.*

1st Lancaster Conference on Infant and Early Child Development (LCICD 2016)

Lancaster, UK

25–27 Aug 2016

- Talk: *Representational Re-description in hSOMs.*

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.

ORGANISING

Women in Cognitive Science (WiCS) Panel at 40th Annual Meeting of the Cognitive Science Society (CogSci 2018)

Madison, Wisconsin, USA

25 Jul 2018

- Topic: Women and Gender Minorities in Computational Cognitive Science: Sharing Experiences.
- Co-organised with Nora S. Newcombe.
- Panel members: Eliana Colunga, Rebecca Frost, Amy Perfors, and myself.

16th Scientific Computing with Python Conference (SciPy 2017)

Austin, Texas, USA

10–16 Jul 2017

- Chaired neuroscience mini-symposium with Ariel Rokem.
- Reviewed conference submissions.

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: Web design (e.g., bradlove.org, neuroplausible.com, oliviaguest.com, redistrict.science); Graphic Design (i.e., Adobe Suite, GIMP, Inkscape); GUI design (i.e., PyGTK, GTK+); Artificial Neural Networks (e.g., TensorFlow); Unix (e.g., CLI, Server Administration).

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