

## Olivia Guest

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### CONTACT INFORMATION

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### LABORATORY MEMBERSHIP

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

Department of Psychological Sciences, Birkbeck, University of London

**Computational Cognitive Neuroscience Laboratory (CCNL)**

Department of Psychological Sciences, Birkbeck, University of London

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

Department of Psychological Sciences, Birkbeck, University of London

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

Department of Psychological Sciences, Birkbeck, University of London

### EDUCATION

**Birkbeck, University of London, UK**

Ph.D. in Computational Cognitive Neuroscience, September 2014 (expected)

- 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*

**Edexcel, Cyprus**

A-level, Mathematics, June 2006

- Grade: *A*

A-level, Computer Science, June 2005

- Grade: *A*

**Λύκειο Ακρόπόλεως (Acropolis Lyceum), Cyprus**

Apolyterion, June 2006

- Subjects: *Advanced Physics, Biology, Computer Science, Mathematics, Technical Drawing*
- Grade: *19.083 / 20*

## PUBLICATIONS

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. (2012). [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.

## ACADEMIC & TEACHING EXPERIENCE

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

**Position:** Graduate Teaching Assistant

**Duration:** 2010 to 2014 (four-year contract)

### *General Foundations of Psychology*

**2010 to Present**

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

### *Psychobiology*

**2010 to Present**

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

### *Introduction to Research Methods*

**2010 to Present**

- 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 Present**

- 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 Present**

- 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 Present**

- 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 Present**

- 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.

CONFERENCES &  
WORKSHOPS

**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 of €100.
- Attended a tutorial: *Scaling models of cognition to the real world: Complexity theoretic tools for dealing with intractability*  
run by: *Iris van Rooij, Johan Kwisthout, Todd Wareham, Mark Blokpoel, Daniel Reichman, Jakub Szymanik.*

PROFESSIONAL  
EXPERIENCE

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

*CCCM Reading Group Seminar Leader*

**2013 to Present (fortnightly)**

- 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 Present (part-time)**

- 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.

**Department of Computer Science, The University of York, UK**

*UCAS Open Days Steward*

**2006 to 2009 (part-time)**

- Engaged in academically-oriented conversation with, and provided feedback to, UCAS applicants.
- Organised and carried out tours of campus, departmental labs, and university accommodation.

**The Language Centre, Nicosia, Cyprus**

*Assistant English Teacher*

**2006 to 2009 (part-time)**

- Taught English as a second language.
- Carried out administrative work.
- Provided IT support for the creation of books and other teaching materials.
- Marked internal English language examinations.

#### TECHNICAL SKILLS

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

**Programming:** Ada, C, C++, C#, GTK, Java, JavaScript, L<sup>A</sup>T<sub>E</sub>X, Lisp (Scheme), MATLAB, OpenGL, Pascal, PHP, Prolog, Python, SQL, Visual Basic.

**Computer Applications/Utilities:** Bison, flex, make, Adobe Photoshop, Microsoft Office Suite, SPSS.

**Operating Systems:** Microsoft Windows family, \*nix.

#### LANGUAGE PROFICIENCY

**Fluent in:** English, Greek.

**Intermediate level:** French.

**Basic level:** Italian.

#### EXTRACURRICULAR INTERESTS

Canoeing, Digital Art, Painting, Photography.