

Olivia Guest

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. (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.

ACADEMIC & TEACHING EXPERIENCE

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

- Organised and ran 3-day workshop
- Prepared slides and exercises

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^AT_EX, 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.