
Amelia Waddington

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Education

Sept 2007 - PhD: "Activity-Dependent Plasticity"

Biosystems Group, School of Computing, University of Leeds, UK

Supervisor: Netta Cohen

July 2007 Bsc Cognitive Science (1st Class)

University of Leeds, Leeds, UK

Final Year Project: "The Effect of Object Occlusion on an Existing Model of the Visual System"

Other Courses

June 2008 Computational Neuroscience Summer School

Centre for Neural Dynamics, University of Ottawa, Ottawa, Canada

Sept 2006 BCCN Postgraduate Course on Computational Neuroscience

Max Plank Institute, Göttingen, Germany

Teaching and Administration

Sept 2008- Present Cognitive Science
Teaching responsibilities on this undergraduate module have included holding seminars, running tutorials and designing and delivering lectures

May-2008- Present I currently run the biosystems reading group. A weekly seminar group which brings together academics from fields as diverse as geography, philosophy, biology and maths to discuss current as well as classic research papers

Poster Presentations

Waddington, A and Cohen, N (2008) *Developing networks: Emergent structures in networks with spike-time dependent plasticity. [Poster]. Exhibited at the 'INCF Workshop on Computational Developmental Neuroscience' Edinburgh University 2008*

Prizes & Awards

- Sept 2007** University Research Scholarship
- July 2007** Ford Prize: Best Performance of a Mature Student within the School of Computing
- May 2007** Natural Language Processing: Best Project
- May 2006** Nuffield Undergraduate Research Bursary
- July 2005** Harvey Prize for Outstanding Performance in Philosophy
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Employment

July – Sept 2007 Intern

Deuchars' Neuroscience Lab, Institute of Membrane and Systems Biology, University of Leeds, Leeds, UK

Using NEURON to model sympathetic preganglionic neurons in the intermediolateral cell column. Investigating the role of electrotonic coupling in experimentally observed oscillatory behaviour

Obtained experience of electrophysiological experimental protocols including whole cell current clamping and extracellular recording

June – Aug 2006 Intern

Biosystems Research Group, School of Computing, University of Leeds, Leeds, UK

Using NEURON to create a compartmental model of motor neurons in the nematode *C. elegans* Investigating the role of mechanosensitive ion channels in the control of locomotion.

March 2001 - Sept 2004 Scientist

Wessex Water, Claverton Down Road, Claverton Down, Bath, UK

Undertaking research and development projects and preparatory investigations

Researching and preparing technical reports for senior management and external bodies

Developing online reporting systems - Primary liaison with IT department on major projects and changes in working methods

Referees

Dr Netta Cohen
Biosystems Research Group Leader
School of Computing
The University of Leeds
Leeds
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Professor Roger Boyle
Head of School
School of Computing
The University of Leeds
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