Curriculum Vitae

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Christine E. Boylan

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Institute for Research in Cognitive Science
University of Pennsylvania
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EDUCATION:

University of Pennsylvania, Philadelphia, PA
Ph.D., Psychology, *in progress*
Advisors: Sharon Thompson-Schill, John Trueswell

University of Chicago, Chicago, IL
B.A., Biology (specialization Neuroscience);
B.A., Linguistics

HONORS and AWARDS

NSF IGERT Traineeship in Language and Communication Sciences (2010)
Benjamin Franklin Fellowship (2010)
Phi Beta Kappa (2008)
University of Chicago Collegiate Honors (2008)
University of Chicago Department of Linguistics Award of Honors (2008)
Howard Hughes Medical Institute and Biological Sciences Collegiate Division Fellowship (2005)
Dean's List (2004-2008)

PUBLICATIONS

Boylan, C., Pylkkänen, L. (submitted). Lexical access vs. composition in the left temporal lobe: A simultaneous MEG and EEG study on N400 and P600 effects.

Boylan, C. (2005). Sophocles contra Homer: The revision of a value system. *COREelations (Essays from the Humanities Common Core Colloquia)*, 8: 20-24.

CONFERENCE PRESENTATIONS and POSTERS

Boylan, C., Atanassov, D., Schwartz, F., Trueswell, J. A matter of ambiguity? Using eye movements to examine collective vs. distributive interpretations of plural sets. Talk given at *4th Biennial Experimental Pragmatics Conference,* Barcelona, June 2-4, 2011.

Boylan, C., Pylkkänen, L. Assessing the Directionality of N400 and P600 effects with simultaneous MEG and EEG. Poster presented at *2nd Annual Neurobiology of Language Conference,* San Diego, November 11-12, 2010.

Boylan, C., Pylkkänen, L. Assessing the Directionality of N400 and P600 effects with MEG. Poster presented at *23rd Annual CUNY Conference on Human Sentence Processing,* NYU, March 18-20, 2010

Boylan, C., Schmidt-Ott, U. Evolution of extraembryonic tissue in winged insects; a study in comparative developmental genetics. Poster presented at *HHMI and University of Chicago BSCD Symposium*. Chicago, IL, August 14, 2005.

PREVIOUS RESEARCH EXPERIENCE

New York University, NYU Neurolinguistics Laboratory
New York, NY
Laboratory Manager and Research Assistant: July 2008 – August 2010

General Description: Designing and conducting MEG and EEG studies; analyzing neuroimaging and electrophysiological data.
Project Description: Investigating the functional roles of the Anterior Midline Field (an MEG component implicated in semantic composition), the N400 ERP, and the P600 ERP.

University of Chicago, The Kenji Suzuki Laboratory
Chicago, IL
Research Assistant: July 2007 – February 2008

Project Description: Supplementing a computer-aided diagnostic program with model aspects of the human visual system and Bayesian/belief networks.

University of Chicago, Human Neuroscience Laboratory,
Chicago, IL
Research Assistant: August 2006 –June 2008

Project Description: Investigating causal inference in narrative discourse processing using fMRI.

University of Chicago, Department of Organismal Biology and Anatomy,
Chicago, IL
Research Assistant: June 2005 - February 2006

Project Description: Characterizing extraembryonic tissues in *Tribolium castaneum* and cyclorrhaphan flies.

SOCIETY MEMBERSHIPS and SERVICE

Society for the Neurobiology of Language (2010-present)
Cognitive Neuroscience Society (2009-present)
Linguistic Society of America volunteer (2008)
Chicago Linguistic Society volunteer (2007-2008)

SKILLS

Practical Research Experience:
Neuroscience: (functional) magnetic resonance imaging;

magnetoencephalography and electroencephalography (including simultaneous recordings); electrooculography; eye tracking; voltage clamp recording.
Cell and Molecular Biology: gene cloning; transformation of *E. coli*; restriction digest analysis; gel electrophoresis (e.g. SDS-PAGE); Southern blotting; isolation and purification of genomic DNA; PCR techniques; labeling probes; whole mount *in situ* hybridization; DAPI nuclear staining; u.v.-visible, infrared, proton, and carbon-13 nuclear magnetic resonance spectroscopy; gas chromatography.
Computer experience:
Neuroscience, Neuroimaging: AFNI, BESA, EEGLAB, Genesis, MEG160.
General: C(++), E Prime, Experiment Builder, Matlab, Powerpoint, Praat, Psyscope, R, SPSS.
Bioinformatics: BLAST, ChemDraw, FASTA, GenBank®, NCBI, single and multiple sequence alignment (MegAlign, EditSeq, Sequencher), Swiss-PDB Viewer, Tree-Puzzle.
Languages: Latin, Arabic.