Jason Locklin, BSc, MA

CONTACT
INFORMATION

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EDUCATION

University of Waterloo

Ph.D., Cognitive Neuroscience, (Expected completion August 2013)

- Thesis Topic: Perception and Action Biases under Saccadic and Prism Adaptation.
- Adviser: Professor James Danckert
- Area of Study: The neuroanatomy and psychophysics of human action and perception.

M.A., Behavioural and Cognitive Neuroscience, August 2009

- Thesis Title: Development of a Measure of Visuomotor Control for Assessing the Long-term Effects of Concussion
- Adviser: Professor James Danckert
- Area of Study: Fine Motor Control, Concussion Research.

B.Sc. (Honours), Major: Psychology, Minor: Biology, June 2007

- Course load including strong mix of Psychology and Natural Science: Biology, Physics, Chemistry, Biochemistry, Organic Chemistry, and Calculus.
- Completed laboratory courses associated with every Natural Science course taken.
- Achieved a 95% in Advanced Data Analysis.
- Average GPA over final 4 terms 84%.

AWARDS

Government of Ontario

Ontario Graduate Scholarship	2010–2011
Aiming for the Top Tuition Scholarship	2002–2003

University of Waterloo

President's Graduate Scholarship	2010–2011
UW/Faculty of Arts Graduate Scholarship	2010
Psychology Memorial Fund Scholarship	2010
Arts Graduate Enhancement Scholarship	2009
University of Waterloo Merit Scholarship	2009
MERIT/Faculty of Arts Graduate Scholarship	2008–2009
Arts Grad Enhancement Scholarship	2007–2008
Dean of Science Honours List (non-monetary)	2004
Dean of Science Honours List (non-monetary)	2005

PUBLICATIONS

- **Locklin, J.**, Bunn, L., Roy, E. & Danckert, J. (2010) Measuring Deficits in Visually Guided Action Post-Concussion. Sports Medicine. 40(3): 183-187

- Striemer, C., **Locklin, J.**, Blangero, A., Rossetti, Y., Pisella, L., & Danckert, J. (2008) Attention for action? Examining the link between attention and visuomotor control deficits in a patient with optic ataxia. Neuropsychologia, 47(6): 1491-1499

Non-Refereed
Publications

- **Locklin, J.**, & Danckert, J. (2010). Do we have Independent Visual Streams for Perception and Action? a Response. Currently posted to Cogprints.org preprint archive.

- **Locklin, J.**, Danckert, J. (2009). Changes in Visuomotor Performance of Concussed Individuals. Poster session presented at the Vision Sciences Society 9th annual meeting, Naples, Florida.

- Law, A.*, McCabe, S., **Locklin, J.**, Tan, C., & Morris, S. (2006), Perceptions of social rank as a predictor of anger and depression symptoms. Poster session presented at the Graduate Student Research Conference, Waterloo, Ontario, Canada.

Teaching

Department of Psychology, University of Waterloo:

Advanced Data Analysis: *Teaching Assistant & Lab Instructor*   **Fall 2007**
- Instructor: Jonathan Fugelsang
- Develop and lead regular 1 hour tutorials instructing 30 students to utilize the statistical software package SPSS in analyzing real world experimental and observational data.
- Graded weekly assignments and tests.

Basic Data Analysis: *Teaching Assistant & Lab Instructor*   **Winter 2008**
- Instructor: Derek Koehler
- Instruct a weekly tutorial for 30 students, consisting of a 30 minute review lecture of the week's topic, and 30 minutes of practical instruction on solving data analytic problems.
- Develop weekly tutorial lesson plans in cooperation with other TAs.
- Create marking keys for tests and grade students.

Cognitive Processes: *Teaching Assistant*   **Fall 2008**
- Instructor: Jonathan Fugelsang
- Provide extra instruction during office hours, grade term papers, give feedback to students.

Physiological Psychology: *Teaching Assistant*   **Winter 2009 and Fall 2009**
- Instructor: Erin Skinner.
- Provide weekly office hour extra instruction to students.

Res. in Human Cognitive Neuroscience: *Teaching Assistant*   **Winter 2010**
- Instructor: Mike Dixon.
- Provide assistance and feedback to students developing a research paper.

Physiological Psychology: *Teaching Assistant*   **Winter 2011**
- Instructor: James Danckert
- Provide weekly office hour extra instruction to students.

Research

Department of Psychology, University of Waterloo:

Research Assistant   **May 2007 to Current**
- Supervisor: Dr. James Danckert
- Develop a motor-accuracy task for the measurement of concussion symptoms.
- Test neurological patients using a variety of neuropsychological tests and procedures, including Prism Adaptation.

- Develop and test a gaze-contingent task using real-time eye-tracking equipment.

Research Assistant   **Jan. 2007 to Apr. 2007**

- Supervisor: Dr. Jon Fugelsang
- Develop web-based decision making experiments and collect data.

Laboratory Coordinator   **Sep. 2005 to Aug. 2006**

- Supervisor: Dr. Scott McCabe
- Train research assistants, coordinate lab events, oversee several experiments.

Research Assistant   **Jun. 2005 to Dec. 2006**

- Supervisor: Dr. James Danckert
- Develop a computer-based task for participants to pursue moving targets on a touch-screen computer.

OTHER RELEVANT EXPERIENCE

U.W. Undergraduate Psychology Society: President   **Sep. 2005 to Apr. 2007**

MATHEMATICAL EXPERTISE

Basic Statistics and Data Analysis

- Hypothesis testing via means comparisons and correlations, including techniques for the prevention of elevated experiment-wise error.
- Data reduction and simplification using measures of central tendency, variance, and periodicity.
- Data visualization, including experience with the problem of communicating high-dimensional data on paper/screen.
- Experiment power and effect size calculations.
- Experimental design optimization.

Advanced Statistics

- Analysis of Variance and Covariance, as well as Logistic Regression (Generalized Linear Models).
- Multiple Regression, including model comparisons and variable coding for non-typical data sets.
- Bayesian hypothesis testing.

TECHNICAL SKILLS

Statistical / Data Analytical Software

- SPSS, a statistical analysis package for the social sciences,
- R, a powerful statistics programming language and data visualization package.
- Scipy/Pylab, a Python library for scientific computation and data visualization.

Laboratory Equipment and Software

- EyeLink II host control (For controlling eye-tracking equipment).
- Psychopy, a Python library for building psychopysics and cognitive psychology experiments.
- Authored a library to interface the EyeLink host with Psychopy.
- Trained in lesion overlay analysis using a variety of software packages (Analysis of fMRI brain imaging data)

- AcqKnowlege software in combination with BIOPAC laboratory equipment for physiological measurement (Electromyography (EMG) and Galvanic Skin Response (GSR))
- E-Prime for data collection in Psychology Research.

Programming and Scripting Languages

- Day-to-day familiarity with several scripting languages including Python, UNIX shell scripting (BASH), and BASIC (E-Basic).
- Experience using a variety of programming languages (C, Pascal, and JAVA).
- Experience using PHP with HTML and CSS in the development of web-based research experiments.

Typesetting and Productivity Software

- Comfortable writing with TeX, LaTeX, and BibTeX for technical and scientific documents, as well as common office suites such as Microsoft Office and OpenOffice.