

## Jason Locklin, BSc, MA

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### CONTACT

#### INFORMATION

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### EDUCATION

University of Waterloo:

**Ph.D., Cognitive Neuroscience**, (Expected completion December 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)**, Psychology, Biology (minor), June 2007

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

### PUBLICATIONS

**Locklin, J.**, Bunn, L., Roy, E. & Danckert, J. (2010). Measuring Deficits in Visually Guided Action Post-Concussion. *Sports Medicine*, 40, 183-187.  
[doi:10.2165/11319440-000000000-00000](https://doi.org/10.2165/11319440-000000000-00000)

**Locklin, J.** (2009). *Development of a measure of visuomotor control for assessing the long-term effects of concussion*. (Master's thesis, University of Waterloo, Waterloo, Canada). Retrieve from  
<http://hdl.handle.net/10012/4740>

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, 1491-1499.  
[doi:10.1016/j.neuropsychologia.2008.12.021](https://doi.org/10.1016/j.neuropsychologia.2008.12.021)

### NON-REFEREED

#### PUBLICATIONS:

Newman, G., Duffy, C., Powell, A., Gray, R., & **Locklin, J.** (2012). *Position Paper on Electromagnetic Hypersensitivity (Idiopathic Environmental Intolerance Attributed to Electromagnetic Fields)*. Canada: Bad Science Watch. Retrieve from  
<http://www.badsiencewatch.ca/wp-content/uploads/2012/08/BSW-Anti-WiFi-2012-Position.pdf>

**Locklin, J., & Danckert, J. (2010).** *Do we have Independent Visual Streams for Perception and Action? a Response.* Preprint. Retrieve from <http://cogprints.org/6854/>

**Locklin, J., Danckert, J. (2009).** Changes in Visuomotor Performance of Concussed Individuals. Poster. Abstract published in *Journal of Vision*, 9:8, 1103-1103. doi:10.1167/9.8.1103

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

## AWARDS

### Government of Ontario

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

### University of Waterloo

University of Waterloo Graduate Scholarship	2012
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

## 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.

**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.

**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 & Fall 2009

- Instructor: Michelle Jarick and Erin Skinner respectively.

- 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.
- Human Neuropsychology: Teaching Assistant** Fall 2012
- 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.

## GRADUATE LEVEL TRAINING

University of Waterloo:

- Non-technical*
- Visual Perception (Dept. of Psychology 287), Daniel Smilek.
  - Neurobehavioral Analysis of Perceptual and Motor Deficits (Dept. of Kinesiology 656), Eric Roy.
  - Nature & Computational Correlations of Intelligence (Dept. of Psychology 670), Britt Anderson.
  - Cognitive Neuropsychology I (Dept. of Psychology 779A), Michael Dixon.
  - Human Neuroanatomy and Neuropathology (Dept. of Psychology 784), Britt Anderson.
- Technical*
- Multiple Regression (Dept. of Psychology 632), Jonathan Oakman.
  - Analysis of Variance (Dept. of Psychology 630), Stephen Spencer.
  - Experimental Design (Dept. of Statistics 830), Jeanette O'Hara-Hines.
  - Computer Vision (Systems Design Engineering 677, Enrolled), Hamid Tizhoosh.

## 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)
- AcqKnowledge 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.

## AFFILIATIONS

Danckert Attention and Action Group ([thedaag.uwaterloo.ca](http://thedaag.uwaterloo.ca))  
Bad Science Watch (Advisory Council) ([badsciencewatch.ca](http://badsciencewatch.ca))  
Vision Sciences Society ([VisionSciences.org](http://VisionSciences.org))

Society of Ontario Freethinkers ([sofree.ca](http://sofree.ca))  
KW Amateur Radio Club (Callsign: VE3MAL, [kwarc.org](http://kwarc.org))  
Locklin Refrigeration & Appliance Service