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## EDUCATION

University of Waterloo:

**Ph.D., Cognitive Neuroscience**, August 2015

- *Perceptual and Memory Deficits in Unilateral Neglect*
- Adviser: James Danckert
- Area of Study: Stroke, Perception, and Memory.

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

- *Development of a Measure of Visuomotor Control for Assessing the Long-term Effects of Concussion*
- Adviser: 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).

## PUBLICATIONS

**Locklin, J.** (2015). *Perceptual and Memory Deficits in Unilateral Neglect*. (Dissertation, University of Waterloo, Waterloo, Canada).

Retrieve from [hdl.handle.net/10012/9590](http://hdl.handle.net/10012/9590)

**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

**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 [hdl.handle.net/10012/4740](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

## 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 [www.badsiencewatch.ca/projects/investigation-of-anti-wifi-activism-in-canada](http://www.badsiencewatch.ca/projects/investigation-of-anti-wifi-activism-in-canada)

**Locklin, J.**, & Danckert, J. (2010). Do we have Independent Visual Streams for Perception and Action? a Response. Preprint.

Retrieve from [cogprints.org/6854/](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.

## LEADERSHIP ROLES

**President:** U.W. Undergraduate Psychology Society. Sep. 2005 to Apr. 2007  
 • Student organization, administration of 8, over 600 members.  
**Laboratory Coordinator:** Clinical Psychology. Sep. 2005 to Aug. 2006  
 • Researcher: Dr. Scott McCabe, University of Waterloo.  
**Science Advisor, Advisory Committee:** Bad Science Watch. Sep. 2012 to Cur  
 • Non-profit public interest advocacy group.

## RESEARCH

Department of Psychology, University of Waterloo:

**Perception, action and brain injury:** Research Assistant. May. 2007 to Aug. 2015  
 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.  
**Decision making:** Research Assistant. Jan. 2007 to Apr. 2007  
 • Supervisor: Dr. Jon Fugelsang  
 • Develop web-based decision making experiments and collect data.  
**Psychophysics.** Research Assistant. Jun. 2005 to Dec. 2006  
 • Supervisor: Dr. James Danckert  
 • Develop a computer-based task for a graduate student's project.  
**Attention and clinical depression.** Research Assistant. Sep. 2004 to Aug. 2006  
 • Supervisor: Dr. Scott McCabe  
 • Train research assistants, oversee several covert-orienting experiments.

## TEACHING

Department of Psychology, University of Waterloo:

**Physiological Psychology:** T.A. Winter 2011 & 2014  
 • Provide weekly office hour extra instruction to students.  
**Human Neuropsychology:** T.A. Fall 2012  
 • Provide weekly office hour extra instruction to students.  
**Res. in Human Cognitive Neuroscience:** T.A. Winter 2010  
 • Provide assistance and feedback to students developing a research paper.  
**Physiological Psychology:** T.A. Winter & Fall 2009  
 • Provide weekly office hour extra instruction to students.  
**Cognitive Processes:** T.A. Fall 2008  
 • Provide extra instruction during office hours, grade term papers, give feedback to students.  
**Basic Data Analysis:** T.A. & Lab Instructor Winter 2008  
 • 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 teaching assistants.  
**Advanced Data Analysis:** T.A. & Lab Instructor Fall 2007  
 • 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.

GRADUATE LEVEL  
TRAINING

University of Waterloo, selected examples follow:

**Technical**

- Multiple Regression (Psychology 632), Jonathan Oakman.
- Analysis of Variance (Psychology 630), Stephen Spencer.
- Experimental Design (Statistics 830), Jeanette O'Hara-Hines.
- Computer Vision (Systems Design Engineering 677), Hamid Tizhoosh.
- Data Analysis in Neuroscience (Biology 681), Mattheijs van der Meer.

**Non-technical**

- Visual Perception (Psychology 287), Daniel Smilek.
- Neurobehavioral Analysis of Perceptual and Motor Deficits (Kinesiology 656), Eric Roy.
- Nature & Computational Correlations of Intelligence (Psychology 670), Britt Anderson.
- Cognitive Neuropsychology I (Psychology 779A), Michael Dixon.
- Human Neuroanatomy and Neuropathology (Psychology 784), Britt Anderson.

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**

- [R](#), statistics programming, data visualization.
- [SPSS](#), statistical analysis for social sciences,
- [Scipy/PyLab](#), Python library for scientific computation, data visualization.
- [Matlab](#), high-level technical computing language.

**Laboratory Equipment and Software**

- [EyeLink II](#) host control (For controlling eye-tracking equipment).
- [Psychopy](#), Python library for building psychophysics and cognitive psychology experiments.
- Trained in lesion overlay analysis (Analysis of MRI 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).
- 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 Software**

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

## 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

## AFFILIATIONS

Dankert 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))