

Department of Psychology  
University of Victoria

### **Education**

Ph.D. (in progress) Cognition and Brain Sciences Program, University of Victoria, Ca (Sep. 2010-)

Supervisor: Clay Holroyd, Ph.D.

Thesis title: TBA

M.S. Cognitive Psychology, University of Oregon, U.S.A. June 2010

Supervisor: Edward Awh, Ph.D.

Thesis title: *A Bilateral Advantage for Storage in Visual Working Memory*

B.S. Psychology, University of Oregon, June 2007

Supervisor: Edward Awh, Ph.D.

Honors thesis: *Implicit Knowledge about Target Location Guides Encoding into Visual Working Memory*

### **Fellowships, Honors, and Awards**

- Vanier Canada Graduate Award, nominated 2010.
- Pacific Century Graduate Scholarship, University of Victoria (UVic), 2010 (\$10,000)
- University of Victoria Graduate Award, 2010 (\$3,500)
- Graduate Teaching Fellowship, 2008-10
- The Pressman Family Scholarship, University of Oregon (UO), 2008 (\$1,400)
- Ghent Scholarship, University of Oregon, 2006 (\$1,800)
- UO Alumni Japan Chapter Scholarship, University of Oregon, 2006 (\$1,000)

### **Peer-reviewed Publications**

Umemoto, A., & Holroyd, C.B. (accepted). Task-specific effects of reward on task switching. *Psychological Research*.

Umemoto, A., Lukie, C. N., Kerns, K. A., Müller, U., & Holroyd, C. B. (2014). Impaired reward processing by anterior cingulate cortex in children with attention deficit hyperactivity disorder. *Cognitive, Affective, & Behavioral Neuroscience*, 1-17.

Umemoto, A., Scolar, M., Vogel, E.K. & Awh, E. (2010). Statistical learning induces discrete shifts in the allocation of working memory resources. *Journal of Experimental Psychology: Human Perception and Performance*, 36, 1419-1429.

Umemoto, A., Drew, T.W., Ester, E.F. & Awh, E. (2010). A bilateral advantage for storage in visual working memory. *Cognition*, 117, 69-79.

### **Manuscripts under Review and in Preparation**

Umemoto, A., Yates, M.E., & Holroyd, C.B. (in preparation). Anterior cingulate cortex supports learned values of hierarchically organized behavior.

Travis E. Baker, Akina Umemoto, Adam Krawitz, & Clay B. Holroyd (in preparation). A neural bias in the parahippocampal system during virtual navigation: Insights into the topographical N170 latency

effect.

### **Conference Presentations**

Umemoto, A. & Holroyd, B.C. *Task-specific effects of reward on task switching*. Paper presented at the NorthWest Cognition And Memory (NOWCAM) annual meeting, May 2014, University of Victoria, BC, Canada.

Umemoto, A., Yates, M., & Holroyd, C.B. *Anterior cingulate cortex supports learned values of hierarchically organized behavior*. Poster presented at the Society for Psychophysiological Research annual meeting, Oct., 2013, Florence, Italy.

Umemoto, A., Yates, M., & Holroyd, B.C. *Learning the Value of Options: Anterior Cingulate Cortex and Hierarchical Reinforcement Learning*. Poster presented at the Cognitive Neuroscience Society (CNS) annual meeting, April 2013, San Francisco, U.S.A.

Umemoto, A., Yates, M., & Holroyd, B.C. *Learning the Value of Options: Anterior Cingulate Cortex and Hierarchical Reinforcement Learning*. Paper presented at the NorthWest Cognition And Memory (NOWCAM) annual meeting, May 2012, Simon Fraser University, BC, Canada.

Umemoto, A. and Awh, E. *Feature-based versus Object-based forgetting in Visual Working Memory*. Poster presented at the VSS Annual Meeting, May 2010, Naples, FL.

Umemoto, A., Drew, T.W., Ester, E.F., & Awh, E. *A Bilateral Advantage for Resolution in Visual Working Memory*. Poster presented at the VSS Annual Meeting, May 2009, Naples, FL.

Umemoto, A., Scolari, M., Vogel, E.K. & Awh, E. *Implicit Knowledge Biases Encoding into Visual Working Memory*. Paper presented at the Annual Meeting of the Psychonomic Society, November 2008, Chicago, IL, U.S.A.

Umemoto, A., Scolari, M., Vogel, E.K. & Awh, E. *Implicit Acquisition of Statistical Regularities about Target Location Biases Encoding into Visual Working Memory*. Paper presented at the Cognitive Science and Interdisciplinary Learning Conference, August 2008, Hood River, OR, U.S.A.

Umemoto, A., Scolari, M., Vogel, E.K. & Awh, E. *Implicit Knowledge Biases Encoding into Visual Working Memory*. Poster presented at the Vision Sciences Society (VSS) Annual Meeting, May 2008, Naples, FL, U.S.A.

### **Professional Activities and leadership skills**

- A poster presentation for Pecha Kucha Biomedica & Poster Social for Idea Fest, UVic (March 2014).
- Student representative for peer advising (2013-2014).
- A paper presentation for the Center for Biomedical Research, titled “An electrophysiological study of reward processing in children with Attention Deficit Hyperactivity Disorder”. May 6 2013.
- Supervised two honors students at UVic (2012-2013)
- Served in an undergraduate committee (as a student advisor) at the University of Oregon (2008-09)
- Supervised a student from American University, Washington D.C., in a Summer Program for Undergraduate Research (SPUR) at UO (2008 & 2009)
- Supervised three honors students at UO (2007-10)

### **Journal Peer-Review**

- Peer-reviewed a manuscript for Experimental Brain Research (Sep. & Dec. 2013).
- Peer-reviewed for The Arbutus Review, an UVic undergraduate research journal (July, 2013).
- Peer-reviewed a manuscript for Journal of Experimental Psychology: Learning, Memory, and Cognition (2013).
- Peer-reviewed a manuscript for Cognition (2012)
- Peer-reviewed manuscripts for Attention, Perception, and Psychophysics (2010; 2011)

### **Research Assistant Positions**

- Learning and Cognitive Control Lab, supervised by Dr. Clay Holroyd at UVic (2010-)
  - Design, program, and conduct behavioral and electrophysiological (ERP) experiments, data analysis, presentation, and publication
  - Supervise undergraduate students on conducting ERP experiments
- Visual Working Memory lab, supervised by Dr. Edward Awh at UO (2005-10)
  - Same as above with behavioral experiments.
- The Dynamic (Trauma) lab, supervised by Dr. Carolyn Allard (then a Ph.D student). (2005-2006).
  - Helped recruit research psychologists and participants from Japan and translated English to Japanese for an online survey.

### **Teaching Assistant Positions**

- Psychology (574A) supervised by Dr. Clay Holroyd. Teaching the ERP lab sessions (Fall 2014).
- Psychology (311B) supervised by Dr. David Polson at UVic. Grading (Summer 2014).
- Psychology (574A) supervised by Dr. Clay Holroyd. Teaching the ERP lab sessions (Fall 2013).
- Consumer Psychology (333) supervised by Dr. James Gibson at UVic. Grading (Spring 2013)
- Cognitive Psychology (313) supervised by Dr. Adam Krawitz at UVic. Grading and giving one lecture. (Fall 2012)
- Cognitive Psychology (313) supervised by Dr. Jim Tanaka at UVic. Grading. (Spring 2012)
- Cognitive Psychology (313) supervised by Dr. David Medler at UVic. Grading and giving one lecture. (Fall 2010)
- Psychology undergraduate student advisor supervised by Dr. Pamela Birrell, at UO (2008-09)
  - Provided advise on courses, degrees, practicum and research for undergraduate students in the Psychology Department