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ACADEMIC APPOINTMENTS

2007 – Present	Temple University	Postdoctoral Fellow (Sponsor: Ingrid R. Olson)
2006 – Present	University of Pennsylvania	Postdoctoral Fellow (Sponsor: Ingrid R. Olson)

EDUCATION

2006	Dartmouth College	Ph.D. Cognitive Neuroscience (Advisor: Howard C. Hughes)
1998	Hamilton College	B.A. <i>Magna Cum Laude</i> , Psychobiology (Honors) and French (Advisor: George A. Gescheider)

GRANT SUPPORT

2008 – 2010 Ruth L. Kirschstein NRSA individual postdoctoral fellowship, *The Nature of Parietal Involvement in Visual Short-Term Memory* (priority score = 1%)
Sponsors: Ingrid R. Olson, H. Branch Coslett

PUBLICATIONS

(Undergraduate co-authors in italics)

Berryhill, M.E., Drowos, D., & Olson, I.R. Parietal cortex damage does not impair associative memory. *Cognitive Neuropsychology*, *in press*.

Berryhill, M.E., & Olson, I.R. (2009). The representation of object distance: Evidence from neuroimaging and neuropsychology. *Frontiers in Human Neuroscience*, 3:43.

Drowos, D., **Berryhill, M.E.**, *André, J.*, & Olson, I.R. True memory, false memory and the subjective recollection deficits after focal bilateral parietal lobe lesions. *Neuropsychology*, *in press*

Olson, I.R, **Berryhill, M.E.**, Drowos, D.B., Brown, L., & Chatterjee, A. Savant syndrome with episodic amnesia. *Neurocase*, *in press*.

Simons, J.S., Peers, P.V., Mazuz, Y., **Berryhill, M.E.**, Olson, I.R. (2009). Dissociation between memory accuracy and memory confidence following bilateral parietal lesions. *Cerebral Cortex*, *in press*.

Berryhill, M.E., & Hughes, H.C. (2009). On the minimization of task switch costs following long-term training. *Attention, Perception & Psychophysics*, *71*, 503-514.

Berryhill, M.E., Fendrich, R., & Olson, I.R. (2009). Impaired distance perception and size constancy following bilateral occipitoparietal damage. *Experimental Brain Research*, *194*, 381-393.

Olson, I.R. & **Berryhill, M.** (2009). Some surprising findings on the involvement of the parietal lobe in human memory. *Neurobiology of Learning and Memory*, *91*, 155-165.

Berryhill, M.E., Mazuz, Y.M, & Olson, I.R. (2008). Learning on the serial reaction time task is not affected by right parietal lobe damage. *Journal of Neuropsychology*, *2*, 509-514. PMID: PMC2600857

Berryhill, M.E., & Olson, I.R. (2008). Is the posterior parietal lobe involved in working memory retrieval?: Evidence from patients with bilateral parietal lobe damage. *Neuropsychologia*, *46*, 1775-1786. PMID: PMC2494709

Berryhill, M.E., & Olson, I.R.(2008). The right parietal lobe is critical for visual working memory. *Neuropsychologia*, *46*, 1767-1774. PMID: PMC2441642

Berryhill, M.E., *Phuong, L., Picasso, L., Cabeza, R., & Olson, I.R.* (2007). Parietal lobe and episodic memory: bilateral damage causes impaired free recall of autobiographical memory. *Journal of Neuroscience*, *27*, 14415-14423.

Berryhill, M.E., Kveraga, K., *Webb, L., & Hughes, H.C.* (2007). Multimodal access to verbal name codes. *Perception & Psychophysics*, *69*, 628 - 640.

Berryhill, M.E., *Chiu, T. & Hughes, H.C.* (2006). Smooth pursuit of non-visual motion. *Journal of Neurophysiology*, *96*, 461-465.

Kveraga, K., **Berryhill, M.**, & Hughes, H.C. (2006). Directional uncertainty in visually guided pointing. *Perceptual and Motor Skills*, *102*, 125-132.

Berryhill, M.E., Kveraga, K., *Webb, L., & Hughes, H.C.* (2005). Effect of uncertainty on the time course for the selection of verbal name codes. *Perception & Psychophysics*, *67*(8), 1437-1445.

Berryhill, M., Kveraga, K., & Hughes, H.C. (2005). Effects of directional uncertainty on visually-guided joystick pointing. *Perceptual and Motor Skills*, *100*, 267-274.

Berryhill, M., Kveraga, K., Boucher, L., & Hughes, H.C. (2004). Smooth pursuit under stimulus-response uncertainty. *Cognitive Brain Research*, 19, 100-102.

Gescheider G.A., **Berryhill M.E.**, Verrillo R.T., & Bolanowski S.J. (1999). Vibrotactile temporal summation: probability summation or neural integration. *Somatosensory & Motor Research*, 16(3), 229-242.

MANUSCRIPTS UNDER REVIEW

Berryhill, M.E., Picasso, L., Arnold, R., Drowos, D., & Olson, I.R. Similarities and differences between parietal and frontal patients in autobiographical and constructive memory tasks. *in revision*

Olson, I.R., Ezzyat, Y., **Berryhill, M.E.**, Rao, H., & Moore, K.S. The human posterior parietal lobe: Preparation for the future or working memory for the past? Evidence from fMRI and lesions. *in revision*

Berryhill, M.E., Chein, J., & Olson, I.R. At the intersection of attention and memory: the mechanistic role of the posterior parietal in working memory.

MANUSCRIPTS IN PREPARATION

Drafts available upon request

Berryhill, M.E., Shay, C., & Olson, I.R. The retro-cue effect depends on retrieval task.

CONFERENCE PRESENTATIONS

* Poster, • Slide Presentation

Berryhill, M.E., Shay, C. & Olson, I.R. Shifting attention in visual short-term memory: testing bottom-up and top-down accounts.

Object Perception and Memory (OPAM), Boston, MA 11/09 *

Olson, I.R., & **Berryhill, M.E.** A mechanistic role of attention in working memory in posterior parietal cortex.

Psychonomic Society, Boston, MA 11/09 *

Berryhill, M.E., & Olson, I.R.

The dorsal visual stream tracks changes in perceived viewing distance.

European Conference for Visual Perception, Regensburg, Germany 8/09 *

Berryhill, M.E., & Olson, I.R.

Parietal lobe memory retrieval mechanism: Is the episodic buffer hypothesis a feasible account?

Cognitive Neuroscience Society, San Francisco, CA 3/09 *

IMBES, Philadelphia, PA 5/09 *

Ross, L.A., **Berryhill, M.E.**, Drowos, D., Olson, I.R. Social processing in the anterior temporal lobes: Evidence from an overlapping task design.
Cognitive Neuroscience Society, San Francisco, CA 3/09 *

Berryhill, M.E., Cabeza, R., & Olson, I.R.
The parietal lobe is critical for memory retrieval under certain contexts.
Society for Neuroscience, Washington, DC 11/08 •

Mazuz, Y.S., Simons, J.S., Peers, P.V., **Berryhill, M.E.**, & Olson, I.R.
Parietal lobe may not be necessary for source memory
Society for Neuroscience, Washington, DC 11/08 •

Berryhill, M.E., Aguirre, G.K., & Olson, I.R.
Superior occipital regions track perceived viewing distance in two-dimensional images.
Vision Sciences Society Annual Meeting, Naples, FL 5/08 •

Berryhill, M.E., Fendrich, R., & Olson, I.R.
Determining size constancy after bilateral parietal damage.
European Conference on Visual Perception, Arezzo, IT 8/07 *
Perception, 36, ECVF Abstract Supplement

Olson, I.R., **Berryhill, M.E.** & Most, S.
The blinking emotional attentional blink and the parietal lobe.
Vision Sciences Society Annual Meeting, Sarasota, FL 5/07 *

Berryhill, M.E., & Olson, I.R.
Determining parietal involvement in visual working memory: Causal or Incidental?
Vision Sciences Society Annual Meeting, Sarasota, FL 5/07 •

Berryhill, M.E., & Olson, I.R.
Is the parietal lobe critical for visual working memory? Evidence from patients with unilateral and bilateral parietal lesions.
Society for Cognitive Neuroscience Annual Meeting, New York, NY 4/07 *

Berryhill, M.E., *Chiu, T.* & Hughes, H.C.
Following what you feel: proprioceptive smooth pursuit revisited
Vision Sciences Annual Meeting, Sarasota, FL 5/06 *

Berryhill, M.E. & Hughes, H.C.
Intermanual skill transfer in a long term manual response motor learning task.
Society for Neuroscience Annual Meeting, Washington, DC 11/05 *

Berryhill, M.E. & Hughes, H.C.
Empirical tests for a model of Hick's law.
Psychonomic Society Annual Meeting, Toronto, ON 11/05 *

Berryhill, M.E. & Hughes, H.C.

Color defined targets in gap and overlap conditions are not facilitated by visual pop-out.
Society for Cognitive Neuroscience Annual Meeting, New York, NY 4/05 *

Berryhill, M.E. & Hughes, H.C.

Pop out targets and saccadic attentional requirements.

Society for Neuroscience Annual Meeting, San Diego, CA 10/04 •

Berryhill, M.E., Kveraga, K., *Copenhaver, B.*, Tse, P., Hughes, H.C.

Simple and choice reaction times modulated by attentional load.

Society for Neuroscience Annual Meeting, New Orleans, LA 11/03 *

Hughes, H.C., **Berryhill, M.E.**, Kveraga, K., Tse, P.U.

Effects of attentional load on saccadic eye movements.

European Society of Cognitive Psychology Conference, Granada, Spain 9/03 *

Kveraga, K., **Berryhill, M.E.**, Hughes, H.C.

Reaching with increasing stimulus-response uncertainty.

Society for Neuroscience Annual Meeting, Orlando, FL 11/02 *

Berryhill, M.E., Boucher, L., Kveraga, K. & Hughes, H.C.

Latency of smooth pursuit under conditions of stimulus-response uncertainty.

Vision Sciences Annual Meeting, Sarasota, FL 5/02 *

Gescheider, G.A., **Berryhill, M.E.**, Verrillo, R.T., Bolanowski, S.J.

Vibrotactile temporal summation. Fechner Day: Proceedings of the 13th Annual Meeting of the International Society for Psychophysics, Quebec, ON 6/98 *

SYMPOSIA ORGANIZATION

“Visual Memory and the Brain”

Vision Sciences Society Annual Meeting, Naples, FL 5/08

INVITED PRESENTATIONS

Moss Center for Neural Rehabilitation	Buxbaum Lab	11/06
Martinos Center for Neuroimaging	Bar Lab	3/07
Dartmouth College	Cognitive Brown Bag	11/07
University of Pennsylvania	Coslett Lab	2/07, 11/07, 11/09
University of Pennsylvania	Chatterjee/Aguirre Labs	3/06, 2/08, 4/09, 10/09
Temple University Spatial Intelligence and Learning Center (SILC)		4/08
Rutgers University-Camden		10/09

TEACHING EXPERIENCE

Bucknell University, Lewisburg, PA

Spring 2009 Guest Lecturer, *Advanced Perception*

University of Pennsylvania, Philadelphia, PA

Fall 2008 Guest Lecturer, *Cognitive Neuroscience*

Temple University, Philadelphia, PA

Spring 2008 Guest Lecturer, *Cognition*

Dartmouth College, Hanover, NH

2002-2003 Teaching Assistant

Methods in Psychological Science, Senior Lecturer: 2 trimesters

- Managed student sections including weekly lectures and laboratory demonstrations

Sensation & Perception

- Worked individually with students

Laboratory Methods in *Behavioral Neuroscience*

- Conducted laboratory sections including brain dissections and animal training
- Guest lectured, provided review sessions

Mill River Union High School, N. Clarendon, VT

2000-2001 Full-time French and Spanish Teacher

- Following Peace Corps service, taught grades 7-12

MENTORING EXPERIENCE

Dartmouth College (2001-2006)

Heather Kiefer, Jane Viner, Brittany Copenhaver, Ashley Donnenfeld,
Roselinde Kaiser, Lauren Botcheos, Priya Mitra, Tanya Chiu

University of Pennsylvania (2006-)

Yonatan Mazuz, Lisa Phuong, Lauren Picasso, Alan Plotzker, Youssef Ezzyat (RA)

Temple University (2007-)

Jessica André (graduate student), Robert Arnold, Kinnari Atit, Alexandra Giardino, Cara Shay, Laura Skipper (graduate student), Lauren Richmond (graduate student), David Drowos (RA), David McCoy (RA)

ACADEMIC AWARDS AND HONORS

2008 Rice University NSF Workshop for Women in Science and Engineering:
Negotiating the Ideal Faculty Position Workshop

- 75 of 1000 applicants accepted

- 2006 Dartmouth College Marie Center 1982 Research Award
• Department award, 1 awarded
- 2004 Dartmouth College Summer Institute in Cognitive Neuroscience
- 2004 Dartmouth College Filene Graduate Teaching Award
• 1 Departmental nominee, 1 of 3 awarded across university
- 1998 Hamilton College B.F. Skinner Research Award
- 1998 Hamilton College Phi Beta Kappa
- 1997 Hamilton College Psi Chi
- 1997 Hamilton College Bristol-Myers Summer Research Fellow

DEPARTMENTAL SERVICE

- 2004-2006 Dartmouth College Elected Graduate Student Representative
- 2005-2006 Dartmouth College Organizer: Cognitive Neuroscience Journal Club

PROFESSIONAL AFFILIATIONS

Psychonomic Society
Society for Cognitive Neuroscience
Society for Neuroscience
Vision Sciences Society
Women in Cognitive Science

REVIEWING

Attention, Perception & Psychophysics,
Brain Research,
European Journal of Cognitive Psychology,
Frontiers in Human Neuroscience (Review Editor),
Journal of Cognitive Neuroscience,
Journal of Neuroscience,
Neuropsychologia,
Quarterly Journal of Experimental Psychology

Updated 12/09