MATTHEW VIA MOLLISON, PH.D.

CURRICULUM VITAE

CONTACT

matt.mollison@gmail.com
San Francisco, CA, USA

http://www.mattmollison.com/
http://github.com/warmlogic/
http://www.linkedin.com/in/mattmollison/

EDUCATION & PROFESSIONAL EXPERIENCE

2015–2017 Data Scientist at Silicon Valley Data Science
Mountain View, CA, USA

2016–present Volunteer Data Scientist at the Code For San Francisco Data Science Working Group
San Francisco, CA, USA

2015 University of Colorado Boulder, CO, USA
Department: Psychology & Neuroscience
Degree: Ph.D.
Advisor: Tim Curran, Ph.D.
Doctoral dissertation: *Distributed practice and distributed representations: Investigating the spacing effect using EEG*
pdf

2014 Insight Data Science fellow
Fall 2014 session
Palo Alto, CA, USA

2010 University of Colorado Boulder, CO, USA
Department: Psychology & Neuroscience
Degree: M.A.
Advisor: Tim Curran, Ph.D.
Master's thesis: *Investigating Familiarity's Contribution to Source Recognition*
pdf, UCB Libraries link

2008–2015 University of Colorado Boulder, CO, USA
Department: Psychology & Neuroscience
Position: Doctoral graduate student in cognitive neuroscience
Advisor: Tim Curran, Ph.D.

2005–2008 University of Pennsylvania, PA, USA
Position: Lab manager and research assistant. Analyzed scalp and intracranial electroencephalographic (EEG) recordings in humans during word- and spatial-memory tasks
Supervisor: Michael J. Kahana, Ph.D.

2001–2005 Brandeis University, Waltham, MA, USA
Major: Psychology
Degree: B.A.
Advisor: Michael J. Kahana, Ph.D.
Honors thesis: *Event-related potentials in humans during spatial navigation*
pdf

TEACHING EXPERIENCE

2012	Course instructor, *Introduction to Cognitive Psychology*, University of Colorado Boulder.
2011	Graduate student teaching assistant, *Introduction to Cognitive Psychology*, University of Colorado Boulder.
2008	Graduate student teaching assistant and lab instructor, *Statistics*, University of Colorado Boulder.

PEER-REVIEWED ARTICLES

Depue, B. E. Ketz, N. Mollison, M. V. Nyhus, E. Banich, M. T. & Curran, T. (2013). Event Related Potentials and Neural Oscillations during Volitional Suppression of Memory Retrieval. *Journal of Cognitive Neuroscience*, 25(10), 1624–1633. doi, pdf

Mollison, M. V. & Curran, T. (2012). Familiarity in source memory. *Neuropsychologia*, 50(11), 2546–2565. doi, pdf

Jacobs, J. Kahana, M. J. Ekstrom, A. D. Mollison, M. V. & Fried, I. (2010). A sense of direction in human entorhinal cortex. *Proceedings of the National Academy of Sciences*, 107(14), 6487–6492. doi, pdf

Kahana, M. J. Mollison, M. V. & Addis, K. M. (2010). Positional cues in serial learning: The spin list technique. *Memory & Cognition*, 38(1), 92–101. doi, pdf

Weidemann, C. T. Mollison, M. V. & Kahana, M. J. (2009). Electrophysiological correlates of high-level perception during spatial navigation. *Psychonomic Bulletin and Review*, 16(2), 313–319. doi, pdf

My profile on Google Scholar: http://scholar.google.com/citations?hl=en&user=JKunxKsAAAAJ

OTHER MANUSCRIPTS

Mollison, M. V. Investigating Familiarity's Contribution to Source Recognition. *Master's Thesis*, University of Colorado Boulder, CO, USA. Advisor: Tim Curran, Ph.D. UCB Libraries link, pdf

Mollison, M. V. Event-related potentials in humans during spatial navigation. *Undergraduate Honors Thesis*, Brandeis University, Waltham, MA, USA. Advisor: Michael Kahana, Ph.D. pdf

INVITED COLLOQUIA

Mollison, M. V. Investigating familiarity's contribution to source recognition. Paper presented at the 28th Annual Ekstrand Memorial Convention, April 2010, University of Colorado Boulder.

Mollison, M. V. EEG correlates of source recognition. Paper presented at the 27th Annual Ekstrand Memorial Convention, April 2009, University of Colorado Boulder.

CONFERENCE TALKS

Mollison, M. V. & Curran, T. Visual features in perceptual expertise training. *Perceptual Expertise Network (PEN) meeting*, 2014. Denver, CO, USA.

Mollison, M. V. & Curran, T. Familiarity in Source Memory. *Annual Summer Interdisciplinary Conference (ASIC)*, 2012. Cala Gonone, Dorgali, Italy.

Mollison, M. V. & Curran, T. Familiarity in Unbound Source Recognition. *Fifth International Conference On Memory*, 2011. York, England, UK.

CONFERENCE POSTER PRESENTATIONS

Mollison, M. V. & Curran, T. Investigating the Spacing Effect using EEG. *Context and Episodic Memory Seminar*, May 2014. University of Pennsylvania, Philadelphia, PA, USA.
pdf

Mollison, M. V. & Curran, T. Investigating the Spacing Effect using EEG. *Temporal Dynamics of Learning Center Annual Meeting*, January 2014. University of San Diego, San Diego, CA, USA.
pdf

Mollison, M. V. & Curran, T. Oscillatory desynchronization during source memory retrieval. *Cognitive Neuroscience Society Annual Meeting*, 2013. San Francisco, CA, USA.
pdf

Mollison, M. V. & Curran, T. Oscillatory desynchronization during source memory retrieval. *Temporal Dynamics of Learning Center Annual Meeting*, 2013. University of San Diego, San Diego, CA, USA.
pdf

Mollison, M. V. Herzmann, G. Noh, E. de Sa, V. & Curran, T. Predicting Subsequent Memory Performance For Auditory and Visual Encoding. *Temporal Dynamics of Learning Center Annual Meeting*, January 2012. University of San Diego, San Diego, CA, USA.
pdf

Mollison, M. V. & Curran, T. Investigating Familiarity's Contribution to Source Recognition. *Cognitive Neuroscience Society Annual Meeting*, 2011. San Francisco, CA, USA.
pdf

Mollison, M. V. & Curran, T. Source information retrieval in a recognition memory task. *Cognitive Neuroscience Society Annual Meeting*, 2010. Montreal, QC, Canada.
pdf

Mollison, M. V. Weidemann, C. T. Jacobs, J. Korolev, I. O. & Kahana, M. J. Oscillatory correlates of implicit landmark recognition during virtual navigation. Program No. 422.9. *2007 Abstract and Itinerary Planner*, San Diego, CA, USA: Society for Neuroscience, 2007. Online.
pdf

Jacobs, J. Kahana, M. J. Ekstrom, A. D. Mollison, M. V. & Fried, I. Human entorhinal neurons encode movement direction. Program No. 422.8. *2007 Abstract and Itinerary Planner*, San Diego, CA, USA: Society for Neuroscience, 2007. Online.
pdf

Mollison, M. V. Jacobs, J. Korolev, I. O. & Kahana, M. J. An EEG study of implicit landmark recognition during virtual navigation. *Cognitive Neuroscience Society Annual Meeting*, 2007. New York, NY, USA.
pdf

Jacobs, J. Kahana, M. J. Ekstrom, A. D. Mollison, M. V. & Fried, I. Human entorhinal neurons encode route information. *Cognitive Neuroscience Society Annual Meeting*, 2007. New York, NY, USA.
pdf

Mollison, M. V. Jacobs, J. Korolev, I. O. & Kahana, M. J. Event-related potentials to landmarks during "Yellow Cab"—a virtual spatial navigation task. *Society for Mathematical Psychology Annual Meeting*, 2006. Vancouver, BC, Canada.
pdf

Korolev, I. O. Jacobs, J. Mollison, M. V. & Kahana, M. J. Human oscillatory activity during virtual navigation: a comparison between scalp and intracranial recordings. Program No. 65.16. *2005 Abstract and Itinerary Planner*, Washington, DC, USA: Society for Neuroscience, 2005. Online.
pdf

SOFTWARE

mat-mvm	MATLAB-based functions and scripts for importing and analyzing EEG data in FieldTrip. https://github.com/warmlogic/mat-mvm
expertTrain	MATLAB- and Psychtoolbox-based experiment for multiple learning and memory experiment paradigms. These include perceptual expertise training, the spacing effect, and stimulus comparisons. https://github.com/warmlogic/expertTrain
LabLackey	iOS-based framework for running psychology experiments. https://github.com/warmlogic/LabLackey

SKILLS

Data:	Empirical design, Data analysis (especially psychological/physiological), Statistics, Machine learning
Languages:	MATLAB, R, Python, Objective-C, LaTeX, HTML, CSS, Git/SVN/CVS, C
Apps and OSs:	SPSS, Adobe Creative Suite, GIMP, MS Office; Mac OS X, iOS, UNIX, Windows
Certification:	CITI Course in The Protection of Human Research Subjects

PROFESSIONAL AFFILIATIONS AND SERVICE

Past member: Society for Neuroscience, Cognitive Neuroscience Society, American Psychological Association

Invited reviewer: European Journal of Neuroscience

Co-reviewer: NeuroImage, Journal of Cognitive Neuroscience

AWARDS & HONORS

Spring 2014	Institute for Cognitive Science Travel Grant
Spring 2014	Cognitive Program Travel Grant
Spring 2013	Institute for Cognitive Science Travel Grant
Spring 2013	Graduate School Travel Fellowship
Spring 2013	Psychology and Neuroscience Department Travel Fellowship
Spring 2013	Cognitive Program Travel Grant
Summer 2012	Institute for Cognitive Science Travel Grant
Summer 2011	Graduate School International Travel Fellowship
Summer 2011	Psychology and Neuroscience Department Travel Fellowship
Summer 2011	Institute for Cognitive Science Travel Grant
Spring 2011	Psychology and Neuroscience Department Travel Fellowship
Spring 2011	Cognitive Program Travel Grant
Spring 2010	Psychology and Neuroscience Department Travel Fellowship
Spring 2010	Cognitive Program Travel Grant
2009 application	National Science Foundation Graduate Research Fellowship, Honorable Mention
2003–2005	Dean's List, Brandeis University
2000	Eagle Scout, Boy Scouts of America, Troop 441, Scottsdale, AZ.