

# Richard Mah

Department of Linguistics and Languages  
McMaster University  
1280 Main Street West  
Hamilton, Ontario  
L8S 4L8  
CANADA

Email: [mahrl@mcmaster.ca](mailto:mahrl@mcmaster.ca)

## Currently

*PhD Candidate*, Cognitive Science of Language, McMaster University

## Education

2010 BSc HONS in Biomedical Sciences, Minor in Linguistics, University of Ottawa  
Thesis: *Multilingualism and speech perception advantages: Effects of language learning experience on processing native contrasts*

## Grants, Honours & Awards

2017 McMaster University Graduate Scholarship, \$4000  
2016 Cognitive Science of Language Travel Award, \$2500  
2015 Ontario Graduate Scholarship, \$15,000  
2014 ARiEAL Doctoral Research Fellowship in Experimental Linguistics, \$25,000  
2014 Ontario Graduate Fellowship, \$12,000  
2013-2017 McMaster University Graduate Scholarship, \$8000 annually  
2013 Cognitive Science of Language Travel Award, \$400  
2011-2012 McMaster University Graduate Scholarship, \$4000 annually  
2010 Faculty of Science and Science Students' Association Joint Travel Grant, \$1000  
2006 University of Ottawa Entrance Scholarship, \$4000

## Non-academic Appointments

2011 Agriculture and Agri-Food Canada Agroforestry Development Center,  
Laboratory Technician  
2010 University of Ottawa Undergraduate Chemistry Teaching Labs,  
Laboratory Technician  
2008-2010 Student Federation of the University of Ottawa & affiliated student associations,  
Chief Electoral Officer

## Publications

### REFEREED JOURNAL ARTICLES

- 2016 Blain-Moraes, S., Boshra, R., Ma H.K., **Mah, R.L.**, Ruiter, K., Avidan, M., Connolly, J.F., & Mashour G.A. (2016), "Normal Brain Response to Propofol in Advance of Recovery from Unresponsive Wakefulness Syndrome", *Frontiers in Human Neuroscience*  
<http://dx.doi.org/10.3389/fnhum.2016.00248>

### CONFERENCE PROCEEDINGS

- 2016 Armanfard, N., Komeili, M., Reilly, J.P., **Mah, R.L.**, & Connolly, J.F. (2016), "Automatic and continuous assessment of ERPs for mismatch negativity detection", *2016 IEEE 32th Annual International Conference of the Engineering in Medicine and Biology Society (EMBC)*  
<http://dx.doi.org/10.1109/EMBC.2016.7590863>

### MANUSCRIPTS IN SUBMISSION

- 2017 **Mah, R.L.**, & Connolly, J.F., "A protocol for extended monitoring of levels of cognitive function in unresponsive patients: A proof of principle study.", *Under review at PLOS One*
- 2017 Rokos, A., **Mah, R.L.**, Boshra, R., Harrison, A., Choy T.L., Blain-Moraes, S., Connolly, J.F., "Eliciting and recording event related potentials in behaviourally unresponsive populations: a reflective commentary on critical factors.", , *Under review at PLOS One*

### MANUSCRIPTS IN PREPARATION

- 2017 **Mah, R.L.**, Connolly, J.F., Hamielec, C., & Fox-Robichaud, A.E., "Advancing prognostication by the detection of fluctuating states of consciousness in coma as reflected by an electrophysiological response.", *For submission to the British Medical Journal Case Reports*
- 2017 **Mah, R.L.**, & Connolly, J.F., "Electrophysiological markers of variations in perceptual and cognitive processing in coma.", *For submission to the Journal of Neuroscience*

### SOFTWARE

- 2014 [erpstrap](#). (in development) A plugin for EEGLAB with functions to compute probability distributions for individual participants using a bootstrapping technique.

## Scholarly Activities

### CONFERENCE TALKS

- 2014 **Mah, R.L.**  
Towards a better measurement of consciousness and predicting outcomes from comas. *Student Research Day*. McMaster University.

## POSTERS PRESENTED

- 2017 Rokos, A.\*, **Mah, R.**, Boshra, R., Harrison, A., Choy, T.L., Blain-Moraes, S., Connolly, J.F.  
Recording Event-Related Potentials from Unresponsive Populations: Identifying Best Practices and Implications for the Study of Consciousness  
*11th Annual Canadian Neuroscience Meeting 2011*. Montreal, QC.
- 2016 **Mah, R.L.\***, Connolly, J.F., Fox-Robichaud, A.E., & Hamielec, C.  
Electrophysiological markers of variations in perceptual and cognitive processing in coma.  
*Society for Neuroscience 2010 Annual Meeting*. San Diego, CA.
- 2015 Schmidtke, D.\*, Service, E., **Mah, R.L.\***, & Connolly, J.F.  
N400 evidence for embodied processing of concrete words after a picture context.  
*Society for Neuroscience 2015 Annual Meeting*. Chicago, IL.
- 2014 Frishkoff, G.A.\*, Rickles, B., Frank, R.M., Bird, C., Curran, T., **Mah, R.L.**, Connolly, J.F.,  
Connell, S., Kilborn, K., Perfetti, C.A.  
Meta-analysis of event-related potentials in episodic and semantic memory: A cross-lab study.  
*Society for Psychophysiological Research, 54<sup>th</sup> Annual Meeting*. Atlanta, GA.
- 2010 **Mah, R.L.\***, Tremblay, M-C., & Sabourin, L.  
Multilingualism and speech perception advantages: Effects of language learning experience on processing native contrasts.  
*Canadian Linguistics Association Annual Meeting*. Concordia University.

## Teaching

### TEACHING ASSISTANT

- 2018 Sentence and Communication Structure in Modern English (Winter 2018)
- 2017 Sounds, Words, and Meaning in Modern English (Fall 2017)
- 2016-2017 Statistics for Language Research (Winter 2016, 2017)
- 2016 Phonetics (Fall 2016)
- 2015 Cognitive Neuroscience of Language (Fall 2015)
- 2012-2013 Introduction to Linguistics I (Fall 2012, 2013)
- 2012-2014 Introduction to Linguistics II (Winter 2012, 2013, 2014)
- 2011 Psycholinguistics (Fall 2011)

## Research

- 2013 NSERC Engage grant with Personal Neuro Devices, Ottawa,  
Site Coordinator & Research Technician
- 2012- Neuro ElectroMagnetic Ontologies Consortium, Site Coordinator & Research Technician  
Supported by NIBIB & NIH grant 5R01EB007684-04
- 2011-2016 Language, Memory, & Brain Laboratory, Research Assistant & Lab Manager (2014-2016)

## University Service

- 2017 The 44<sup>th</sup> Annual Linguistic Association of Canada and the United States (LACUS) Forum,  
**Local Logistical Support**
- 2015- Canadian Union of Public Employees Local 3906,  
**Secretary-Treasurer**
- 2015-2016 Faculty of Humanities Faculty Council,  
**Graduate Student Representative**
- 2015-2016 Department of Linguistics Faculty Council,  
**Graduate Student Representative**
- 2014- McMaster University Arts Joint Health and Safety Committee,  
**CUPE 3906 Unit 1 representative**
- 2014 The 9<sup>th</sup> International Conference on the Mental Lexicon,  
**Local Organizing Committee, and Programme Designer**
- 2013-2016 Canadian Union of Public Employees Local 3906,  
**Bylaws Committee Chair**
- 2011 Professional Engineers of Ontario - Student Conference 2011,  
**Organizing Committee Member**
- 2010 University of Ottawa Engineering Students' Society Charity Ball,  
**Organizing Committee Member**
- 2010 National Conference on Women in Engineering Annual Meeting,  
**Organizing Committee Member**
- 2010 Engineering Student Societies' Council of Ontario Annual General Meeting,  
**Organizing Committee Member**
- 2008-2010 Student Federation of the University of Ottawa, Board of Administration,  
**Director - Faculty of Science**
- 2007-2009 Science Students' Association of the University of Ottawa,  
**Vice-President of Internal Operations**

## Professional Memberships

- 2014- Society for Neuroscience,  
**Graduate student member**
- 2012- Institute of Electrical and Electronics Engineers,  
**Graduate student member**

## Technical Knowledge

### PROGRAMMING LANGUAGES

- Advanced Java  
MATLAB  
Python
- Proficient JavaScript  
SQL

## SOFTWARE PACKAGES

EEG analysis EEGLAB  
Brain Vision Analyzer  
BESA

Experiment Presentation  
control E-Prime  
PsyScope

Statistical R  
analysis SPSS

Last updated: March 1, 2018