

Lauren L. Emberson

Sackler Institute for Developmental Psychobiology
Weill-Cornell Medical School
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Education

- 2008- present Visiting Graduate Student, Cornell Linkage Program
Sackler Institute of Developmental Psychobiology,
Psychiatry Department, Weill-Cornell Medical College
New York Presbyterian Hospital
- 2006- present Ph.D Candidate, Psychology Department, Cornell University
Focus: Perception, Cognition, & Development
Minor: Cognitive Science
- 2008 Merck Fund Summer Institute on the Biology of
Developmental Disabilities; Cornell University, Ithaca, NY
- 2005 B.Sc in Cognitive Systems; University of British Columbia (UBC)
Specialization: Brain and Behaviour

Awards & Fellowships

- 2011 Sage Graduate Fellowship, Cornell University
- 2009-10 Foreign National Science and Engineering Counsel Doctoral Post-graduate
Student Scholarship (NSERC-PGS) from the Government of Canada
- 2009 NSF Student Travel Award from the Cognitive Science Society
- 2009 Fellowship to Attend the Future of Cognitive Science Meeting, University of
California at Merced
- 2009 Graduate Conference Travel Award, Graduate School, Cornell University
- 2009 Conference Travel Award, Cornell Cognitive Science Program
- 2008 Merck Fellowship, Biology of Developmental Disorders, Cornell University
- 2008 Graduate Conference Travel Award, Graduate School, Cornell University
- 2008 Travel Fellowship, Cognitive Science Program, Cornell University

- 2007 Graduate Research Award, Psychology Department, Cornell University
- 2007 Graduate Conference Travel Award, Graduate School, Cornell University
- 2007 Travel Fellowship, Cognitive Science Program, Cornell University
- 2006 Sage Graduate Fellowship, Cornell University
- 2005 Award of Excellence, UBC Undergraduate Research Conference
- 2005 People's Choice Award, UBC Undergraduate Research Conference
- 2004 Summer Fellowship: Discover McGill Cognitive Neuroscience Program
Advisor: Dr. Evan Balaban; Co-advisor: Dr. Daniel Levitin

Professional Service & Teaching

Graduate Co-ordinator

- 2008 Merck Fund Summer Institute on the Biology of
Developmental Disabilities; Cornell University, Ithaca, NY

***Ad Hoc* Reviewer**

- Annual Meeting for the Cognitive Science Society

Teaching Experience and Community Outreach

- 2008 Teaching Assistant for PSYCH 616/416: Modeling Perception and Cognition
Taught by Dr. Michael Spivey
Student Evaluation: 4.6 out of 5
- 2007-08 Graduate Student School Outreach Program (GSSOP) at Cornell University
Designed and taught mini-course:
“Your Brain’s Illusions: Why scientists love to study trickery!”
-2008: Sophomore Anatomy & Physiology Class, Ovid, NY
-2007: AP Biology Class at Cascadilla School, Ithaca, NY
- 2007-08 Workshop Organizer and Teacher; Expand Your Horizons (EYH), Program to
Encourage Young Girls to Pursue Scientific and Mathematic Studies
Student evaluations (2008): 4.4 out of 5
- 2007 Course development and teaching of PSYCH 103 seminar at Cornell
“This is Your Brain on Happiness”
Student Evaluation: 4.65 out of 5
- 2005-06 Teaching Assistant for Cognitive Systems 200 at UBC

Peer-Reviewed Publications

- Emberson, L. L.**, Lupyan, G., Goldstein, M. H., & Spivey, M. J. (in press). Overheard Cell-Phone Conversations: When Less Speech is More Distracting. *Psychological Science*.
- Emberson, L. L.**, Liu, R., & Zevin, J. D. (2009). Statistics All the Way Down: How is Statistical Learning Accomplished Using Novel, Complex Sound Categories? In N. Taatgen and H. van Rijn (Eds.), *Proceedings of the 31st Annual Meeting of the Cognitive Science Society*. (p. 995-1000). Austin, TX: Cognitive Science Society.
- Emberson, L. L.**, Weiss, R. J., Barbosa, A. V., Vatikiotis-Bateson, E., & Spivey, M. J. (2008). Crossed hands curve saccades: Multisensory dynamics in saccade trajectories. In B. C. Love, K. McRae, & V. M. Sloutsky (Eds.), *Proceedings of the 30th Annual Conference of the Cognitive Science Society* (pp. 369-374). Austin, TX: Cognitive Science Society.
- Doesburg, S. **Emberson, L. L.**, Rahi, A., Cameron, D., & Ward, L. M. (2008) Asynchrony from synchrony: Long-range gamma-band neural synchrony accompanies perception of audiovisual asynchrony in speech. *Experimental Brain Research*, 185, 11-20.
- Emberson, L. L.**, Kitajo, K., & Ward, LM. (2007) Endogenous neural noise and stochastic resonance, In *Proceedings of The Conference of Noise and Fluctuations in Biological, Biophysical, & Biomedical Systems*. Ed. Bezrukov, S. M. 6602

Manuscripts In Progress (available upon request)

- Emberson, L. L.**, Weiss, R. J., Barbosa, A. V., Vatikiotis-Bateson, E. & Spivey, M. J. (submitted). Crossed Hands Curve Visual Saccades: Eye Movements to Visual Targets Index Spatial Resolution of Body Position
- Emberson, L. L.**, Conway, C. M., & Christiansen, M. H. (under review) Timing is everything: Changes in Presentation Rate have Opposite Effects on Auditory and Visual Implicit Statistical Learning
- Emberson, L. L.**, & Rubinstein, D. (under review). Learning from Environmental Regularities is Grounded in Specific Objects not Abstract Categories. *Proceedings for the 32nd Annual Conference of the Cognitive Science Society*.
- Emberson, L. L.**, Liu, R., & Zevin, J. D. (in preparation). Environmental Statistical Learning of Novel, Complex Sound Categories: Finding Functional Units Amidst Perceptual Variability.

Conference Presentations

- Emberson, L. L.** & Amso, D. (accepted). Perceptual Learning of Complex Objects: Mechanisms of integration across multiple views of a novel object in cluttered scenes. *27th Annual Meeting of Cognitive Science Society*, Montreal, QC, Canada.

Conference Presentations (continued)

- Emberson, L. L., & Zevin, J. D.** (2009). Beyond the statistics: Questioning the arbitrariness of the "words" in statistical learning paradigms. Member Poster at *31st Annual Meeting of the Cognitive Science Society*, Amsterdam, the Netherlands
- Emberson, L. L., Liu, R., & Zevin, J. D.** (2009). Statistics All the Way Down: How is Statistical Learning Accomplished Using Novel, Complex Sound Categories? Poster at *31st Annual Meeting of the Cognitive Science Society*, Amsterdam, the Netherlands.
- Emberson, L. L., Kitajo, K., MacLean, S. E. & Ward, L. M.** (2009). Intermediate Levels of Uncoordinated Gamma-Band Activity Facilitate Behavioral Responses To Simple Visual Stimuli. *26th Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA
- Farmer, T.A. & **Emberson, L.L.** (2009). Paying Attention to Attention in Language Learning and Development. *Symposium for Annual Meeting of the Society of Research C and Development*. Denver, Colorado.
- Misyak, J. M., **Emberson, L.L.**, Schwade, J.A., Christiansen, M.H., & Goldstein, M. H. (2009). Face-to-Face, Word-for-Word: Comparing Statistical Learning for Familiar Stimuli Across Modalities. Poster at *Annual Meeting of the Society of Research C and Development*. Denver, Colorado.
- Emberson, L. L., Lupyan, G., Webb, A., Goldstein, M. H., & Spivey, M. J.** (2008). Why Cell Phones are Irritating: Different types of speech yield different attentional demands. *49th Annual Meeting of the Psychonomics Society*. Chicago, IL.
- Emberson, L. L., Weiss, R. J., Barbosa, A. V., Vatikiotis-Bateson, E., & Spivey, M. J.** (2008). Crossed hands curve saccades: Multisensory dynamics in saccade trajectories. Poster at *9th International Multisensory Research Forum*. Hamburg, Germany.
- Emberson, L. L., Conway, C. M., & Christiansen, M. H.** (2008). Timing is everything: Modality modulates effects of attention in implicit statistical learning. Poster at *9th International Multisensory Research Forum*. Hamburg, Germany.
- Emberson, L. L., Weiss, R. J., Barbosa, A. V., Vatikiotis-Bateson, E., & Spivey, M. J.** (2008). Crossed hands curve saccades: Multisensory dynamics in saccade trajectories. *Paper at 30th Annual Meeting of the Cognitive Science Society*. Washington, DC.
- Emberson, L. L., Misyak, J. M., Schwade, J. A., Christiansen, M. H., & Goldstein, M. H.** (2008). Face-to-face: Visual Statistical Learning with Complex Natural Stimuli. *Poster at XVIth Biennial International Conference on Infant Studies*. Vancouver, BC.
- Emberson, L. L., Conway, C. M., & Christiansen, M. H.** (2007). Timing is everything: The effects of attention and modality in statistical learning. *Poster at 48th Annual Meeting of the Psychonomics Society*. Long Beach, CA.
- Emberson, L. L., Kitajo, K. & Ward, L. M.** (2007). Somewhat noisy brains see better: Prestimulus dynamics and perceptual performance. *Poster at the Annual Meeting of the Cognitive Neuroscience Society*. New York, NY.

Conference Presentations (continued)

Emberson, L. L., Kitajo, L. & Ward, L. M. (2007) Endogenous neural noise and stochastic resonance. *The Conference of Noise and Fluctuations in Biological, Biophysical, & Biomedical Systems*. Florence, IT.

Advisors:

Dr. Michael Goldstein (Cornell)

Dr. Dima Amso (Sackler Institute for Developmental Psychobiology, Weill-Cornell Medical School)

Dr. Michael Spivey (UCMerced)

Dr. Barbara Finlay (Cornell)