

MELISSA TROYER

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Education

- In progress **PhD Candidate**, Cognitive Science
University of California—San Diego, La Jolla, CA
- 2012 **S.M.**, Cognitive Science
Massachusetts Institute of Technology, Cambridge, MA
- 2008 **B.S.**, Psychology, **B.S.**, Cognitive Science, **B.A.**, Linguistics, French
Summa cum laude
Indiana University, Bloomington, IN

Fellowships and Awards

- 2017 Summer Graduate Teaching Scholar, UCSD
- 2017 Kavli Summer Institute in Cognitive Neuroscience Fellow
- 2016-2017 Frontiers of Innovation Scholars Program Award, UCSD
- 2015, 2017 Travel Awards, Graduate Student Association, UCSD
- 2015 Best Poster Award, Graduate Student Association Travel Grant Symposium, UCSD
- 2014-2017 Travel Awards, Cognitive Science Department, UCSD
- 2012-2016 Kroner Fellowship, UCSD
- 2011-2012 Henry E. Singleton Award, MIT
- 2008-2014 National Science Foundation Graduate Research Fellowship
- 2008-2011 National Defense Science and Engineering Graduate Fellowship

Journal Articles

- Troyer, M.** & Borovsky, A. (2017). Maternal socioeconomic status influences the range of expectations during language comprehension in adulthood. *Cognitive Science*, *41*, 1405-1433.
- Troyer, M.**, Hofmeister, P., & Kutas, M. (2016). Elaboration over a discourse facilitates retrieval in sentence processing. *Frontiers in Psychology*, *7*, 374.
- Wang, H., Ma, L., Wang, Y., **Troyer, M.**, & Li, Q. (2015). An ERP study in English relative clause processing by Chinese-English bilinguals. *Chinese Journal of Applied Linguistics*, *38*(1), 3-35.
- Troyer, M.**, Curley, L.B., Miller, L.E., Saygin, A.P., & Bergen, B.K. (2014). Action verbs are processed differently in metaphorical and literal sentences depending on the semantic match of visual primes. *Frontiers in Human Neuroscience*, *8*, 982.
- DeLong, K.A., **Troyer, M.**, & Kutas, M. (2014). Pre-processing in sentence comprehension: Sensitivity to likely upcoming meaning and structure. *Language and Linguistics Compass*, *8*(12), 631-645.
- Miller, B.R., **Troyer, M.**, & Busey, T.A. (2008). Virtual EEG: A software-based electroencephalogram designed for undergraduate neuroscience-related courses. *The Journal of Undergraduate Neuroscience Education (JUNE)*, *7*(1), A19-A25. Software available at <http://virtualeeg.psych.indiana.edu>.

Manuscripts in preparation

- Troyer, M.** & Kutas, M. (*in prep*). Harry Potter and the Chamber of *What?* The contribution of what individuals know to ERP context effects.

Other Published Work (Refereed Conference Proceedings, Tech Reports, etc.)

- Troyer, M.** & Kutas, M. (2017). It's all in your head: Effects of expertise on real-time access to knowledge during written sentence processing. In G. Gunzelmann, A. Howes, T. Tenbrink, & E.J. Davelaar (Eds.), *Proceedings of the 39th Annual Conference of the Cognitive Science Society* (pp. 1212-1217). Austin, TX: Cognitive Science Society.
- Troyer, M.** & Borovsky, A. (2015). Childhood SES affects anticipatory language comprehension in college-aged adults. In Noelle, D.C., Dale, R., Warlaumont, A.S., Yoshimi, J., Matlock, T., Jennings, C.D. & Maglio, P.P., (Eds.), *Proceedings of the 37th Annual Conference of the Cognitive Science Society* (p. 2428-2433). Austin, TX: Cognitive Science Society.
- Troyer, M.**, O'Donnell, T.J., Fedorenko, E. & Gibson, E. (2011). Storage and computation in syntax: Evidence from relative clause priming. In L. Carlson, C. Hölscher, & T. Shipley (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society* (pp. 336-341). Austin, TX: Cognitive Science Society.
- Troyer, M.**, Loebach, J.L., & Pisoni, D.B. (2009). Perception of temporal asynchrony in audiovisual phonological fusion. *Research on Spoken Language Processing*, Progress Report 29, 156-182.
- Troyer, M.** & Montaña, F.A. (2008). A surface-level account of French word-initial [w] in sandhi and non-sandhi contexts. *IULC Working Papers Online*, 8(4), 1-23.

Selected Conference Presentations

- Troyer, M.** & Kutas, M. (November 2017). Making sense of real-time access to knowledge during sentence processing: What you know, what you don't know, and what you don't know you know. Poster to be presented at the 9th Annual Meeting of the Society for Neurobiology of Language, Baltimore, MD.
- Troyer, M.** & Kutas, M. (July 2017). It's all in your head: Effects of expertise on real-time access to knowledge during written sentence processing. Talk presented at CogSci 2017, London.
- Troyer, M.** & Kutas, M. (March 2017). Harry Potter and the Chamber of WHAT?: Real-time semantic access is a function of the individual's knowledge. Poster at the Cognitive Neuroscience Society, San Francisco, CA.
- Troyer, M.** & Borovsky, A. (March 2015). Childhood SES affects anticipatory language comprehension in college-age adults. Poster presented at the 28th CUNY Conference on Human Sentence Processing, University of Southern California, Los Angeles, CA.
- Troyer, M.**, Hofmeister, P., & Kutas, M. (March 2015). Pronoun resolution is sensitive to the complexity of the antecedent: Evidence from ERPs. Poster presented at the Cognitive Neuroscience Society, San Francisco, CA.
- Troyer, M.**, Guerra, E., Amsel, B.D., Urbach, T.P., DeLong, K.A., Knoeferle, P., & Kutas, M. (April 2014). Spatial distance influences the neural response to different semantic relations. Poster presented at the Cognitive Neuroscience Society, Boston, MA.
- Troyer, M.**, Hofmeister, P., & Kutas, M. (March 2014). Elaboration of concepts facilitates their retrieval in sentence processing. Poster presented at the 27th CUNY Conference on Human Sentence Processing, Ohio State University, Columbus, OH.
- Troyer, M.**, O'Donnell, T.J., Fedorenko, E. & Gibson, E. (July 2011). Storage and computation in syntax: Evidence from relative clause priming. Talk presented at the 33rd Annual Meeting of the Cognitive Science Society, Boston, MA.
- Troyer, M.**, Fedorenko, E., & Gibson, E. (March 2009). Production priming of object- and subject-extracted relative clauses. Poster at the 22nd CUNY Conference on Human Sentence Processing, University of California--Davis, Sacramento, CA.

Teaching Experience

- 2017 Instructor, COGS 101C, *Language*, UCSD.
- 2015-2016 Graduate Advocate, *Summer Training for Research in the Sciences Program (STARS)*, UCSD.
- 2013-2016 Teaching Assistant, UCSD. COGS 101C, *Language*; COGS 115, *Neural Development and Cognitive Change*; COGS 109, *Modeling and Data Analysis*; COGS 154, *Communication Disorders in Children and Adults*; COGS 172, *Brain Disorders and Cognition*; COGS 3, *Introduction to Computing*.
- 2009-2011 Teaching Assistant, MIT. 9.00, *Introduction to Psychology*; 9.59, *Psycholinguistics*.
- 2005-2006 Undergraduate Teaching Instructor, Indiana University, Bloomington. COGS-Q 250, *Math and Logic for Cognitive Science*.

Departmental Talks, Invited Presentations, and Guest Lectures

- 2017 “Human brain development.” Guest lecture, HDP 1, UCSD.
- 2017 “Language and the brain.” Guest lecture, COGS 101C, UCSD.
- 2017 “Harry Potter and the Chamber of *What?*: Brain potentials to congruous words are systematically related to knowledge.” Talk, Center for Research in Language talk series, UCSD.
- 2016 “Harry Potter and the Chamber of *What?*: Real-time semantic access is a function of the individual’s knowledge.” Poster at the Frontiers of Innovation Scholars Program Symposium, UCSD.
- 2016 “Event-related brain potentials.” Guest lecture, COGS 1, *Introduction to Cognitive Science*, UCSD.
- 2015 “Variability in semantic access during language comprehension: The role of prior knowledge.” Third-year talk, Cognitive Science Department, UCSD.
- 2015 “Pronoun resolution is sensitive to the complexity of the antecedent: Evidence from ERPs.” Poster at the UCSD Graduate Student Association Travel Grant Symposium. *Best Poster Award Recipient*.
- 2015 “Language Disorders in Adults.” Guest lecture, COGS 154, *Communication Disorders in Children and Adults*, UCSD.
- 2015 “Language: What we can learn from neuropsychology.” Guest lecture, PSYC 120, *Learning and Cognition*, Holy Names University.
- 2015 “Language Disorders: Aphasia.” Guest lecture, COGS 172, *Brain Disorders and Cognition*, UCSD.
- 2015 “Language Disorders: Laterality and Right-hemisphere Damage.” Guest lecture, COGS 172, *Brain Disorders and Cognition*, UCSD.
- 2014 “Conceptual elaboration facilitates retrieval in sentence processing.” Talk, Center for Research in Language talk series, UCSD.
- 2014 “Language development.” Guest lecture, Cognitive Science COGS 154, *Communication Disorders in Children and Adults*, UCSD.
- 2014 “Language development: Innateness and critical periods.” Guest lecture, COGS 101C, *Language*, UCSD.
- 2014 “Language development: Learning sounds and grammar.” Guest lecture, COGS 101C, *Language*, UCSD.

- 2014 “Elaboration of concepts facilitates their retrieval in sentence processing.” Second-year Talk, Cognitive Science Department, UCSD.
- 2014 “Elaboration of concepts facilitates their retrieval in sentence processing.” Poster at the UCSD Cognitive Science Alumni Reunion.
- 2012 “Storage and computation in syntax: Evidence from relative clause priming.” Talk, Center for Research in Language talk series, UCSD.
- 2012 “Individual differences in sentence processing.” Talk, Language and Cognition talk series, Harvard University.
- 2011 “Investigating storage and computation in syntax using relative clause priming.” Talk, Perception, Cognition, and Development Brownbag talk, Cornell University.
- 2011 “Storage and computation in syntax: Evidence from sentence production priming studies.” Talk, Cog Lunch Talk Series, MIT.
- 2011 “Vision.” Guest lecture, Brain & Cognitive Sciences 9.00, *Introduction to Psychology*, MIT.
- 2009 “Language Processing.” Lecture, Discover Brain and Cognitive Science Freshman Pre-Orientation Program, MIT.
- 2009 “Speech.” Guest lecture, Brain & Cognitive Sciences 9.59, *Psycholinguistics*, MIT.

Academic Service and Outreach

- 2016-2017 Organizing Committee and Event Coordinator, Taste of Science
- 2015- Coordinator, Center for Research in Language Talk Series, UCSD
- 2015-2017 Organizing Committee, ComSciCon-SD (<http://comscicon.com/comscicon-sandiego-2017>)
- 2014-2016 Cognitive Science Interview Weekend Committee, UCSD
- 2014-2015 Co-Editor, Center for Research in Language Tech Reports, UCSD
- 2013- Contributor, NeuWriteSD.org
- 2013-2016 Moderator, Cognitive Science Department Blog, UCSD
- 2013-2014 Organizer, Cognitive Science Department Peer Mentorship, UCSD
- 2013 Volunteer, Society for the Neurobiology of Language, San Diego, CA
- 2009-2011 Brain and Cognitive Sciences Outreach Committee, MIT
- 2009-2011 Brain and Cognitive Sciences Graduate Student Interview Weekend Committee, MIT
- 2009-2010 Coordinator, Cog Lunch talk series, MIT
- 2009-2010 Graduate Student Representative, MIT

Software/Teaching tools

Virtual EEG: <http://virtualeeg.psych.indiana.edu>

Bootstrapping statistical software: <http://cognitrn.psych.indiana.edu/busey/homepage/Statistics.html/>