

## MELISSA TROYER

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Department of Cognitive Science  
University of California—San Diego  
La Jolla, CA 92093

mtroyer@ucsd.edu  
acsweb.ucsd.edu/~mtroyer

### Education

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- 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.**, Cognitive Science, **B.S.**, Psychology, **B.A.**, Linguistics, French  
*Summa cum laude*  
Indiana University, Bloomington, IN

### Fellowships and Awards

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- 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

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- Troyer, M.** & Kutas, M. (2018). Harry Potter and the Chamber of *What?*: the impact of what individuals know on word processing during reading. *Language, Cognition, and Neuroscience*.
- 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>.

## Refereed Conference Proceedings

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- 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 39<sup>th</sup> 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 37<sup>th</sup> 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.

## Tech Reports

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- 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

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- Troyer, M.** & Kutas, M. (March 2018). Catching a Snitch vs. catching a Bludger: Variability in world knowledge influences real-time access to word meaning. Poster at the Cognitive Neuroscience Society, Boston, MA.
- 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 at the 9<sup>th</sup> 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 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 at the 28<sup>th</sup> 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 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 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 at the 27<sup>th</sup> 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 at the 33<sup>rd</sup> 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, Davis, CA.

### Teaching and Mentoring

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- 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*.

### Guest lectures and departmental presentations

### \*Invited lecture or talk

- 2018 \*"Language in the brain." Cognitive Science Panel, STEAM Speaks. Elementary Institute of Science, San Diego.
- 2018 \*"Real-time language processing in the brain." Guest lecture, LIGN 170, *Psycholinguistics*, UCSD.
- 2017 \*"Human brain development." Guest lecture, HDP 1, *Introduction to Human Development*, UCSD.
- 2017 \*"Language and the brain." Guest lecture, COGS 101C, *Language*, 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**

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- 2016-2017 Organizing Committee and Event Coordinator, Taste of Science
- 2015-2018 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
- 2013-2017 Contributor, NeuWriteSD.org
- 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**

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

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

## **References**

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Prof. Marta Kutas  
Distinguished Professor and Chair of Cognitive Science  
9500 Gilman Drive #0515  
La Jolla CA 92093-0515  
[mkutas@ucsd.edu](mailto:mkutas@ucsd.edu)  
858-534-1386

Prof. Seana Coulson  
Professor of Cognitive Science  
9500 Gilman Drive #0515  
La Jolla CA 92093-0515  
[coulson@cogsci.ucsd.edu](mailto:coulson@cogsci.ucsd.edu)  
858-534-7486