

**Cassandra L. Jacobs**  
 Postdoctoral Research Associate  
 University of Wisconsin - Madison  
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### ***Education***

- 2011-2017 **Doctor of Philosophy, Cognitive Psychology**  
 University of Illinois at Urbana-Champaign
- 2015-2016 **Master of Science, Computer Science**  
 University of Illinois at Urbana-Champaign
- 2011-2013 **Master of Arts, Psychology**  
 University of Illinois at Urbana-Champaign
- 2006-2010 **Bachelor of Arts, Linguistics and Psychology**  
**with High Honors and Special Honors in Linguistics**  
 University of Texas at Austin

### ***Employment***

- 2019 – Pres. **Language, Cognition, and Cognitive Neuroscience Lab**  
**University of Madison, Wisconsin**  
 Postdoctoral Research Associate
- 2014 – Pres. **Psychonomic Society**  
 Digital Content Associate Editor
- 2017 – 2019 **Ferreira Lab, University of California at Davis**  
 Visiting Researcher
- 2018 **Instructor of Record, University of California at Davis**  
 Language and Cognition (PSC 132)
- 2016 – 2018 **Stitch Fix Inc.**  
 Data Scientist, Natural Language Processing
- 2013 **Language Production Lab, University of Illinois**  
 Research Assistant
- 2012 **Cognitive Psychology Lab (PSY 331), University of Illinois**  
 Teaching Assistant

### ***Research Interests***

- Broad** psycholinguistics; learning; memory; concepts; natural language processing
- Narrow** language production; recall; corpus methods; neural networks; phonological representations; compositionality in language comprehension and production; conceptual combination; unitization; quantitative methods in psycholinguistics; prosody; human factors in natural language annotation tasks

### ***Publications and Peer-Reviewed Proceedings***

- Jacobs, C. L., Cho, S.-J., & Watson, D. G.** (2019). Self-priming in production: evidence for a hybrid model of syntactic priming. *Cognitive Science*, 43, e12479. doi: [10.1111/cogs.12749](https://doi.org/10.1111/cogs.12749)
- Hubbard, R. J., Rommers, J., **Jacobs, C. L.**, & Federmeier, K. D. (2019). Downstream behavioral and electrophysiological consequences of prediction on recognition memory. *Frontiers in Human Neuroscience*, 13, 291. doi: [10.3389/fnhum.2019.00291](https://doi.org/10.3389/fnhum.2019.00291)
- Jacobs, C. L.** & Mailhot, F. (2019). Encoder-decoder models for latent phonological representations of words. Proceedings of SIGMORPHON 2019, Association for Computational Linguistics. Florence, Italy. [\[ACL anthology link\]](#)

- Jacobs, C. L., Dell, G. S., & Bannard, C.** (2017). Phrase frequency effects in free recall: Evidence for redintegration. *Journal of Memory and Language*, 97C, 1-16. doi: [10.1016/j.jml.2017.07.003](https://doi.org/10.1016/j.jml.2017.07.003)
- Jacobs, C. L., Dell, G. S., Benjamin, A. S., & Bannard, C.** (2016). Part and whole linguistic experience affect recognition memory for multiword sequences. *Journal of Memory and Language*, 87, 38-58. doi: [10.1016/j.jml.2015.11.001](https://doi.org/10.1016/j.jml.2015.11.001)
- Jacobs, C. L., Yiu, L. K., Watson, D. G., & Dell, G. S.** (2015). Why are repeated words produced with reduced durations? Evidence from inner speech and homophone production. *Journal of Memory and Language*, 84, 37-48. doi: [10.1016/j.jml.2015.05.004](https://doi.org/10.1016/j.jml.2015.05.004)
- Dell, G.S., & **Jacobs, C.L.** (2015). Successful speaking: Cognitive mechanisms of adaptation in language production. In G. Hickok & S.L. Small (Eds.), *The Neurobiology of Language* (pp. 209-220). Elsevier.
- Jacobs, C. L.** (2015, June). Predictions for self-priming from incremental updating models unifying comprehension and production processes. *Proceedings of Cognitive Modeling and Computational Linguistics, NAACL-HLT 2015*. Denver, CO. pp. 1-8.
- Jacobs, C. L. & Dell, G. S.** (2014). 'hotdog' not 'hot' 'dog': The phonological planning of compound words. *Language, Cognition, and Neuroscience*, 29, 512-523. doi: [10.1080/23273798.2014.892144](https://doi.org/10.1080/23273798.2014.892144)

### ***Submitted manuscripts*** (‡ = Equal contribution.)

- Buxó-Lugo, A.‡, **Jacobs, C. L.**‡, & Watson, D. G. (*in revision at Journal of Memory and Language*). The world is not enough to explain contrastive accenting.
- Watson, D. G., **Jacobs, C. L.**‡, & Buxó-Lugo, A.‡ (*invited submission in revision to WIREs Cognitive Science*). Prosody indexes competence and performance.
- Jacobs, C. L.**, Loucks, T., Watson, D. G., & Dell, G. S. (*in revision at Language, Cognition, and Neuroscience*). Feedforward and feedback mechanisms trigger repetition reduction: Evidence from speech noise masking and whisper.
- Tippenhauer, N., **Jacobs, C. L.**, & Watson, D. G. (*submitted to Journal of Memory and Language*). Different levels of linguistic representation affect different aspects of speech prosody.
- Cho, S-J., Watson, D. G., **Jacobs, C. L.**, & Naveiras, M. (*submitted to Multivariate Behavioral Research*). A Markov mixed-effect multinomial logistic regression model for nominal repeated measures: An analysis on syntactic self-priming effects.

### ***Manuscripts in preparation***

- Jacobs, C. L. & Huber, D. E.** – The continuous bag-of-words model as a model of human episodic memory.
- Jacobs, C. L., & Ferreira, F.** – Phrase frequency structures the free recall of images.
- Jacobs, C. L., Erk, K.** – Model selection principles for predicting human semantic processing.
- Jacobs, C. L.** – Compositionality in distributionally-acquired phonological category representations.

### ***Oral Presentations*** (\* = Invited presentation)

- \* **Jacobs, C. L. & Huber, D. E.** (2019, November). The Lexical Context Model: A continuous bag of words model of semantic and episodic memory. Invited talk to be given at the 2019 meeting of the Society for Mathematical Psychology Pre-Conference, Psychonomic Society, Montreal, Quebec, Canada.

- \* **Jacobs, C. L.** (2019, February). Red snappers and red herrings: The linguistic representations of word combinations. Invited talk given at the Linguistics Colloquium, Cornell University. Ithaca, New York.
- Jacobs, C. L.** (2018, November). What speech prosody can tell us about cognition. Symposium lead and panel discussion chair, Psychonomic Society Annual Meeting. New Orleans, Louisiana.
- \* **Jacobs, C. L.** (2018, October). Quantifying the compositionality of multiword expressions. Invited talk given to the Computational Linguistics Lab, CUNY Graduate Center.
- \* **Jacobs, C. L.** (2018, October). What memory for phrases can tell us about memory and phrases. Invited talk given at the Cognition and Cognitive Neuroscience Brownbag, University of Massachusetts – Amherst.
- Buxó-Lugo, A., **Jacobs, C. L.**, & Watson, D. G. (2018, March). Hear no evil or speak no evil: Lengthening of phonological competitors. Oral presentation given at the 31st Annual CUNY Conference on Human Sentence Processing, Davis, California.
- \* **Jacobs, C. L.** (2018, February). Data and anecdata: Data science as a career path. Presentation given to the Perception, Cognition, and Cognitive Neuroscience Group at the University of California – Davis.
- \* **Jacobs, C. L.** (2017, October). Imposing structure on unstructured text at Stitch Fix. Invited oral presentation given at the 3rd annual Crunch Data Analytics and Engineering Conference, Budapest, Hungary.
- Jacobs, C. L.** (2017, September). Sound reasoning: How acoustic memories drive phonetic reduction. Presentation given to the Language Group at the University of California – Davis.
- \* **Jacobs, C. L.** (2016, March). The cognitive representations of compositional expressions: Evidence from recognition and recall. Invited talk given to the IU Cognitive Computing Lab meeting.
- \* **Jacobs, C. L.** (2016, March). Keeping your thoughts to yourself: The role of inner speech in audience design. Invited presentation given at the Beckman Graduate Student Seminar.
- \* **Jacobs, C. L.** (2015, November). Constraints speakers place on repetition reduction and accenting. Invited presentation to the Linguistics Colloquium Seminar, University of Illinois.
- Jacobs, C. L.** (2015, October). Memory for words and phrases. Cognitive Brownbag Seminar, University of Illinois.
- Jacobs, C. L.** (2015, September). Solving the sequential ordering problem in speech and skilled typing. Language Processing Brownbag Seminar, University of Illinois.
- Jacobs, C. L.** (2014, November). What frequency effects in recognition memory tell us about phrases. Invited presentation given at Beckman Graduate Student Seminar, University of Illinois.
- Jacobs, C. L.** (2014, October). What frequency effects in recognition memory tell us about phrases. Or: Is a handsome wizard still a wizard? Cognitive Brownbag Seminar, University of Illinois.
- Jacobs, C. L.** & Griffin, Z. M., (2010, December). When do mothers address their children by name? A corpus analysis. Talk presented at the Vocative! Workshop. Bamberg, Germany.

### ***Poster Presentations***

- Jacobs, C. L.**, & Ferreira, F. (2019, November). The recall of highly literal phrases is both incremental and redintegrative. Poster to be presented at the 60th Annual Meeting of the Psychonomic Society. Montreal, Quebec, Canada.

- Jacobs, C. L., & Erk, K.** (2019, March). Using word2vec to predict human language processing. Poster presented at the 32nd Annual CUNY Conference on Human Sentence Processing, Boulder, Colorado.
- Jacobs, C. L., & Ferreira, F.** (2019, March). Contrastive focus constructions hurt memory for sentence meaning. Poster presented at the 32nd Annual CUNY Conference on Human Sentence Processing, Boulder, Colorado.
- Jacobs, C. L., Cho, S.-J., & Watson, D. G.** (2019, March). Speakers do prime themselves. Poster presented at the 32nd Annual CUNY Conference on Human Sentence Processing, Boulder, Colorado.
- Jacobs, C. L., Loucks, T., Watson, D. G., & Dell, G. S.** (2018, November). The shortening of repeated words does not depend on speakers receiving auditory feedback. Poster presented at the 59th Annual Meeting of the Psychonomic Society, New Orleans, Louisiana.
- Tippenhauer, N., **Jacobs, C. L.,** Watson, D. G. (2018, March). Production predictions: Word duration under two theories. Poster presented at the 31st Annual CUNY Conference on Human Sentence Processing, Davis, California.
- Jacobs, C. L.** (2017, July). The role of domain in learning about referents. Poster presented at the Workshop for Women and Underrepresented Minorities in NLP, Vancouver, Canada.
- Jacobs, C. L. & Dell, G. S.** (2016, September). Experience with phrases stitches their words together during free recall. Poster presented at Architectures and Mechanisms for Language Processing (AMLaP), Bilbao, Spain.
- Jacobs, C. L., Loucks, T. M. J., Watson, D. G., & Dell, G. S.** (2016, July). Testing the role of auditory feedback in repetition reduction. Poster presented at the International Workshop on Language Production, San Diego, California.
- Jacobs, C. L. & Watson, D. G.** (2016, March). The magnitude of syntactic self-priming and comprehension-to-production priming. Poster presented at the 29th annual meeting of the CUNY Conference on Human Sentence Processing, Gainesville, FL.
- Jacobs, C. L., Dell, G. S., Bannard, C., & Benjamin, A. S.** (2015, November). Frequent phrases are easier to recall, but not easier to recognize. Poster presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL.
- Jacobs, C. L., Yiu, L. K., Pinet, S. & Watson, D. G.** (2015, November). Differences in chaining mechanisms in speech production and sentence typing. Poster presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL.
- Hubbard, R. J., Rommers, J., **Jacobs, C. L. & Federmeier, K. D.** (2015, November). Electrophysiological predictors of successful memory during encoding of sentential information vary based on constraint and predictability. Poster presented at the 7th annual meeting of the Society for the Neurobiology of Language, Chicago, IL.
- Hubbard, R. J., Rommers, J., **Jacobs, C. L. & Federmeier, K. D.** (2015, October). Effects of expectedness and sentential constraint on memory for words: Behavioral and electrophysiological evidence. Poster presented at the 55th annual meeting of the Society for Psychophysiological Research, Seattle, WA.
- Jacobs, C. L., Watson, D. G. & Bock, J. K.** (2015, March). Speakers do not self-prime. Poster presented at CUNY Conference on Sentence Processing, University of Southern California, Los Angeles.
- Jacobs, C. L., Dell, G. S. & Benjamin, A. S.** (2014, September). Words are less salient in phrases: Evidence from frequency effects in recognition memory. Poster presented at Architectures and Mechanisms for Language Processing (AMLaP), Edinburgh, Scotland.

- Jacobs, C. L.,** Watson, D. G. & Dell, G. S. (2014, July). Why do we shorten repeated words? Evidence against the production priming account. Poster presented at the International Workshop on Language Production. Geneva, Switzerland.
- Jacobs, C. L.,** Watson, D. G. & Dell, G. S. (2014, March). Reduction in duration depends on articulation, not simply facilitated processing. Poster presented at CUNY Conference on Sentence Processing. The Ohio State University, Columbus, Ohio.
- Jacobs, C.L.,** Dell, G. S., Benjamin, A. S. & Bannard, C. (2013, November). Phrases don't behave like words: Phrase frequency effects in recognition memory. Poster presented at the 54th annual meeting of the Psychonomic Society. Toronto, Ontario, Canada.
- Jacobs, C. L.,** Ireland, M. E. & Watson, D. G. (2013, September). Speaking style shifts following verbal and nonverbal interaction. Poster presented at Architectures and Mechanisms for Language Processing (AMLaP). Marseille, France.
- Jacobs, C.L.,** Dell, G. S., Benjamin, A. S. & Bannard, C. (2013, September). Are word sequences like words? The role of phrase frequency in recognition memory. Poster presented at Architectures and Mechanisms for Language Processing (AMLaP). Marseille, France.
- Jacobs, C. L. & Dell, G. S.,** (2012, November). The production of hotdog is not the production of hot and then dog. Poster presented at the 53rd annual meeting of the Psychonomic Society. Minneapolis, MN.
- Jacobs, C. L. & Dell, G. S.,** (2012, July). When is there no dog in hotdog? Form preparation in nominal compounds. Poster presented at the International Workshop on Language Production. New York, NY.

### *Awards*

- 2015-2016 **Beckman Institute Graduate Research Fellowship**  
 2015-2016 **National Science Foundation**  
 Graduate Research Opportunities Worldwide (GROW)  
 2013 **Best poster award**  
 Architectures and Mechanisms for Language Processing  
 2011-2016 **National Science Foundation Graduate Research Fellowship**  
 2009-2010 **Undergraduate Research Fellowship**  
 University of Texas at Austin

### *Teaching and Service*

- 2019 **Diversity and Inclusion Committee**  
**North American Association for Computational Linguistics (NAACL)**  
 Committee Member
- 2018 **Undergraduate Statistical Learning Tutorial Series**  
 University of Rochester
- 2018 **Instructor of Record, PSC 132 - Language and Cognition**  
 University of California, Davis
- 2018 – Pres. **Cognitive Modeling and Computational Linguistics**  
 Co-organizer
- 2017 **Delta Analytics**  
 Data Science Fellow for Social Good
- 2014 **Machine Learning Reading Group for Psychology and Neuroscience**  
 University of Illinois at Urbana-Champaign  
 Co-organizer
- 2012 **PSYCH 331 - Laboratory in Cognitive Psychology**  
 University of Illinois at Urbana-Champaign

Laboratory Teaching Assistant

## ***Reviewing***

### Conferences

- 2016 – Pres. **Annual Meeting of the Cognitive Science Society**  
2016 – Pres. **Association for Computational Linguistics**  
ACL, NAACL, EMNLP, and CoNLL  
- Cognitive Modeling and Psycholinguistics  
- Phonology, Morphology, and Word Segmentation  
- Semantics  
[\[2018 Top Reviewer\]](#)  
2019 – Pres. **Context and Compositionality in Biological and Artificial Neural Systems Workshop (NeurIPS 2019)**  
2018 – Pres. **Widening NLP Workshop**  
2018 – Pres. **CUNY Human Sentence Processing Conference**  
2018 **Grace Hopper Conference, Data Science track**

### Journals

- 2016 – Pres. **Journal of Experimental Psychology - Learning, Memory, and Cognition**  
2018 – Pres. **Cognition**  
2018 – Pres. **Behavior Research Methods**  
2019 – Pres. **Cognitive Science**

## ***Professional Memberships***

Psychonomic Society  
Association for Computational Linguistics  
Cognitive Science Society

## ***References***

Gary Dell ([gdell@illinois.edu](mailto:gdell@illinois.edu))  
Duane Watson ([duane.g.watson@vanderbilt.edu](mailto:duane.g.watson@vanderbilt.edu))  
David Huber ([dehuber@psych.umass.edu](mailto:dehuber@psych.umass.edu))  
Margaret Fleck ([mfleck@illinois.edu](mailto:mfleck@illinois.edu))