JACK DEMPSEY, PHD

PSYCHOLINGUIST - EDUCATIONAL PSYCHOLOGIST – DATA SCIENTIST www.Jack-Dempsey.com – jkdemps2@illinois.edu

Professional Positions

Director of Research – Cascade Reading January 2022-Present March 2021-December 2021 (Prior: Part-Time Research Consultant) Remote, Based in Minneapolis, MN Adjunct Lecturer – EPSY 401: Child Language & Education Spring 2022-Present Department of Educational Psychology, University of Illinois at Urbana-Champaign Lab Manager - Center for Language Science August 2016-August 2017 The Pennsylvania State University **Educational Background** PhD, Educational Psychology May 2022 Cognitive Science of Teaching and Learning University of Illinois at Urbana-Champaign M.S., Educational Psychology August 2019 Cognitive Science of Teaching and Learning University of Illinois at Urbana-Champaign December 2015

B.A., Linguistics *with Departmental Distinction* Minors: French; German University of Illinois at Urbana-Champaign

Languages in order of proficiency: English (from birth), French, German, Italian

Peer-Reviewed Publications

<u>2023</u>

- Dempsey, J., Tsiola, A., Chantavarin, S., Ferreira, F., & Christianson, K. (in press). Nonce word evidence for the misinterpretation of implausible events. *Journal of Cognitive Psychology*.
- **Dempsey, J.**, Liu, Q., & Christianson, K. (in press). Syntactic adaptation leads to updated knowledge for local structural frequencies. *Quarterly Journal of Experimental Psychology*.
- Christianson, K., **Dempsey, J.**, M. Deshaies, S. E., Tsiola, A., & Valderrama, L. P. (2023). Do readers misassign thematic roles? Evidence from a trailing boundary-change paradigm. *Language, Cognition and Neuroscience*, 1-21.

- Colclasure, B., Thoron, A., & **Dempsey, J.** (2022). Factors relating to agriculture teachers' perceived use of instructional methods. *Advancements in Agricultural Development, 3*(4), 1-16.
- Dempsey, J., & Christianson, K. (2022). Referencing context in sentence processing: A failure to replicate the strong interactive mental models hypothesis. *Journal of Memory and Language, 125*, 104335.
- Christianson, K., **Dempsey, J.**, Goldshtein, M., & Tsiola, A. (2022). "What if they're just not that into you (or your experiment)? On motivation and psycholinguistics." In *Psychology of Learning and Motivation*. Academic Press.
- **Dempsey, J.**, Christianson, K., & Tanner, D. (2022). Misretrieval but not misrepresentation: A feature misbinding account of post-interpretive effects in number attraction. *Quarterly Journal of Experimental Psychology*, *75*(9), 1727-1745.

<u>2020</u>

- **Dempsey, J.** & Brehm, L. (2020). Can propositional biases modulate syntactic repair processes? Insights from preceding comprehension questions. *Journal of Cognitive Psychology, 32*(5-6), 543-552.
- **Dempsey, J.**, Liu, Q., & Christianson, K. (2020). Convergent probabilistic cues do not trigger syntactic adaptation: Evidence from self-paced reading. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 46*(10), 1906-1921.

Invited Talks

"Professional Development Workshop on Industry Jobs" University of Illinois Second Language Acquisition & Teacher Education Workshop	October 2022
"A practical introduction to Bayesian mixed models for experimental research" University of Illinois Second Language Acquisition & Teacher Education Workshop	September 2021
"Programming psycholinguistics experiments in (New) Ibex Farm" University of Illinois Exp-Ling Group	April 2021
"Misinterpretations & good-enough processing: A road down the garden path" University of California-Riverside – LING 162/PSYC 128: Language and the Brain	November 2020
"Ibex Farm & Mechanical Turk" University of Illinois Second Language Acquisition & Teacher Education Workshop	December 2019

Refereed Presentations & Conference Publications

Christianson, K., Valderrama, L., Chen, D., & **Dempsey, J.** Auditory Perceptual Simulation (APS): Psycholinguistic effects, pedagogical aspirations. Talk given at the 36th Annual Conference on Human Sentence Processing, Pittsburgh, PA, March 2023.

- **Dempsey, J.**, Tsiola, A., Bosch, N., Christianson, K., & Stites, M. *A psycholinguistic analysis of eye-movement patterns while troubleshooting Python source code*. Talk given at the 63rd Annual Psychonomics Society Meeting, Boston, MA, November 2022.
- Christianson, K., Deshaies, S.E., **Dempsey, J.,** Tsiola, A., & Valderrama, L. *Three Types of Garden-Paths: Reading, Rereading, and Revision.* Poster presented at the 63rd Annual Psychonomics Society Meeting, Boston, MA, November 2022.
- **Dempsey, J.**, Tsiola, A., & Christianson, K. *A serial relationship between parsing and discourse information favors underspecification accounts of attachment ambiguities in English.* Poster presented at the 28th Architectures and Mechanisms for Language Processing (AMLaP) Conference, York, UK, September 2022.
- Christianson, K., Deshaies, S.E., **Dempsey, J.**, Tsiola, A., & Valderrama, L. Reading, rereading, and extent of revision of *four types of garden-paths.* Poster presented at the 28th Architectures and Mechanisms for Language Processing (AMLaP) Conference, York, UK, September 2022.
- Dempsey, J. & Van Dyke, J. An Analysis of Syntactic Text Properties as Predictors of Reading Comprehension Across Lexile & Grade Levels. In J. Van Dyke, Exploring syntax as the linchpin between oral reading fluency and reading comprehension ability. 29th Annual Meeting of the Society for the Scientific Study of Reading, Newport Beach, CA, July 2022.
- Van Dyke, J. & Dempsey, J. Using Visually Salient Syntactic Boundary Cues to Increase Comprehension of Complex Syntax: Evidence from 4th and 5th Graders Reading Cascade Format. In J. Van Dyke, Exploring syntax as the linchpin between oral reading fluency and reading comprehension ability. 29th Annual Meeting of the Society for the Scientific Study of Reading, Newport Beach, CA, July 2022.
- Adoni, M. & **Dempsey, J.** *Political influences on meme perception: A pilot study.* Poster presented at the 2022 Undergraduate Research Symposium, University of Illinois at Urbana-Champaign, April, 2022.
- **Dempsey, J.**, Chantavarin, S., Tsiola, A., Ferreira, F., & Christianson, K. *Do fels bite veks? Investigating real-time misinterpretations using nonce words.* Poster presented at the 35th Annual Conference on Human Sentence Processing, Virtual, March 2022.
- **Dempsey, J.** & Christianson, K. *Effects of discourse context on resolving temporarily ambiguous attachment structures.* Poster presented at the 35th Annual Conference on Human Sentence Processing, Virtual, March 2022.
- Christianson, K., **Dempsey, J.**, Deshaies, S.E., Tsiola A. *Exploring thematic role reversal errors with a novel text-change paradigm*. Poster presented at the 35th Annual Conference on Human Sentence Processing, Virtual, March 2022.
- Stoops, A., Dempsey, J., & Christianson, K. Syntactic predictability modulates parafoveal processing of morphology: evidence from word n and word n+1. Poster presented at the 35th Annual Conference on Human Sentence Processing, Virtual, March 2022.
- Dempsey, J. & Christianson, K. Depends on the Context: A Bayesian Replication of Grodner, Gibson, & Watson (2005). Poster withdrawn due to COVID from the 62nd Annual Psychonomics Society Meeting, New Orleans, LA, November 2021.
- Christianson, K., Deshaies, S.E., Tsiola, A., & **Dempsey, J.** *Thematic Role Assignment in First- and Second-Pass Reading: Evidence from a Text-Change Paradigm.* Talk withdrawn due to COVID from the 62nd Annual Psychonomics Society Meeting, New Orleans, LA, November 2021.

- **Dempsey, J.**, Tsiola, A., Stites, M., Bosch, N., & Christianson, K. *Assessing Eye Movement Scanpaths in Source Code Comprehension*. Poster presented at the Sandia Academic Alliance LDRD Virtual Poster Session, September 2021.
- Christianson, K., Tsiola, A., **Dempsey, J.,** & Deshaies, S.E. "Did I read that right?" Thematic role assignment in first- and second-pass reading. Talk given at the 27th Architectures and Mechanisms for Language Processing (AMLaP) Conference, Virtual, September 2021.
- Davis, N., **Dempsey, J.**, & Foutz, S. *Qualitative analysis of exhibit interactions between parents and children*. Poster presented at the 2021 Visitor Studies Association Annual Conference, Virtual, July 2021.
- Susberry, V., **Dempsey, J.**, & Christianson, K. Accent bias and racial accents in academic comprehension. Talk given at the 13th Annual Illinois Language and Linguistics Society Conference, University of Illinois at Urbana-Champaign, Virtual, February 2021.
- **Dempsey, J.** & Christianson, K. *Does familiarity or repair drive syntactic adaptation?* Poster presented at the 61st Annual Psychonomics Society Meeting, Virtual, November 2020.
- **Dempsey, J.,** Liu, Q., & Christianson, K. *Structural frequency and exposure: Don't raise your expectations.* Poster presented at the 26th Architectures and Mechanisms for Language Processing (AMLaP) Conference, Virtual, September 2020.
- Dempsey, J., Barlaz, M., & Christianson, K. Using Principal Component Analysis to Simplify Eye-Tracking Models. Talk given at the 12th Annual Illinois Language and Linguistics Society Conference, University of Illinois at Urbana-Champaign, Urbana, IL, February 2020.
- **Dempsey, J.**, Liu, Q., & Christianson, K. *Expect the unexpected: Syntactic adaptation and the rise of infrequency.* Poster presented at the 60th Annual Psychonomics Society Meeting, Montréal, QC, Canada, November 2019.
- **Dempsey, J.**, Liu, Q., & Christianson, K. *Probabilistic cues do not rapidly facilitate prediction of relative-clause garden-path constructions*. Talk given at Psycholinguistics in Iceland: Parsing and Prediction, University of Iceland, Reykjavik, Iceland, June 2019.
- **Dempsey, J.**, Liu, Q., & Christianson, K. *Convergent probabilistic cues do not trigger syntactic adaptation*. Poster presented at the 32nd CUNY Conference on Human Sentence Processing, University of Colorado-Boulder, Boulder, CO, March 2019.
- Tanner, D., Dempsey, J., & Christianson, K. Does attraction lead to systematic misinterpretation of NP number? Probably not. Poster presented at the 31st CUNY Conference on Human Sentence Processing, University of California-Davis, Davis, CA, March 2018.
- Winter, S.B., Rizio, A.A., **Dempsey, J.**, Oktar, K., Diaz, M.T. *White Matter Integrity & Language Production in Aging.* Poster presented at the Society for Neurobiology of Language, Baltimore, M.D., November 2017.
- **Dempsey, J.** & Brehm, L. Biased reading & neutral representations: How presentation order of comprehension questions alters reading strategies without influencing final representations. Poster presented at the 58th Annual Psychonomics Society Meeting, Vancouver, BC, Canada, November 2017.
- Dempsey, J., Christianson, K., & Tanner, D. Misrepresentations of plurality in late processing: Evidence from self-paced reading. Poster presented at the 29th CUNY Conference on Human Sentence Processing, University of Florida, Gainesville, FL, March 2016 & at the 8th Annual Illinois Language and Linguistics Society Conference, University of Illinois at Urbana-Champaign, Urbana, IL, April 2016.

Ross, D., Grunow, R., Lac, K., Jabbour, G., & **Dempsey, J.** Serial Verb Constructions: A distributional and typological perspective. Talk given at the 7th Annual Illinois Language and Linguistics Society Conference, University of Illinois at Urbana-Champaign, Urbana, IL, April 2015.

Peer Review Service

Journal of Memory and Language Computer Assisted Language Instruction Consortium (CALICO) Journal Generative Approaches to Second Language Acquisition (GASLA16) Proceedings International Society of the Learning Sciences Annual Meeting 2022 Journal of Experimental Psychology: General Journal of Experimental Psychology: Learning, Memory, and Cognition Journal of Neurolinguistics Quarterly Journal of Experimental Psychology

Special Courses & Certificates

Certificate in Foundations of User Experience (UX) Design Awarded by Google through Coursera	October 2022	
Undergraduate Mentoring Certificate Awarded by the University of Illinois Graduate College	May 2022	
Fifth Summer School on Statistical Methods for Linguistics and Psychology Advanced Bayesian Data Analysis – Taught by Dr. Bruno Nicenboim	September 2021	
Fourth Summer School on Statistical Methods for Linguistics and Psychology Introduction to Bayesian Regression Modeling with brms – Taught by Dr. Shravan Vasish	September 2020	
Grants, Fellowships, Awards & Honors		
Hardie Dissertation Award - \$1,999 An eye-tracking investigation into the role of contextual biases in the resolution of attachment ambiguities College of Education, University of Illinois at Urbana-Champaign	April 2021	
Campus Research Board Grant - \$22,514 <i>Too good to be true? A critical test of rapid syntactic adaptation</i> PI: Dr. Kiel Christianson Campus Research Board, University of Illinois at Urbana-Champaign	August 2019-May 2020	
Top Abstract Award ILLS 8 Conference at the University of Illinois, Urbana, IL	April 2016	

Organizations & Committees

Spark Society Member	2022-Present
Psychonomic Society Member (Prior: Student Member)	2022-Present 2017-2022
Society for the Scientific Study of Reading Member	2022-Present
College of Education Academic Programs Committee Graduate Student Member	AY 2021-2022
Educational Psychology Mixed Methods Specialization Committee Graduate Student Member	AY 2020-2021
Illinois Language & Linguistics Society Conference Planning Committee Invited Speaker Liaison & Reviewer	AY 2018-2019; 2019-2020