

EVGENIIA DIACHEK

DOCTORAL CANDIDATE

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EDUCATION

Ph.D., Psychological Sciences <i>Vanderbilt University, Nashville TN</i>	2018-2023
M.S., Psychological Sciences <i>Vanderbilt University, Nashville TN</i>	2018-2020
M.A., Applied Linguistics <i>University of Massachusetts, Boston MA</i>	2015-2017
B.A., Linguistics <i>Moscow State Pedagogical University, Moscow</i>	2011-2015

RESEARCH EXPERIENCE

The Conversation Lab / Computational Memory Lab / Language Neuroscience Lab <i>Vanderbilt University / Vanderbilt University Medical Center, Nashville TN</i>	2018-2023
Ev Fedorenko's Lab <i>Massachusetts Institute of Technology, Cambridge MA</i>	2016-2018
Harvard Laboratory for Developmental Studies <i>Harvard University, Cambridge MA</i>	2016-2017

AWARDS AND FELLOWSHIPS

Russel G. Hamilton Graduate Student Travel Grant – <i>Vanderbilt University</i>	2020
The Abby and Jon Winkelried Fellowship – <i>Peabody College, Vanderbilt University</i>	2019
Peabody Dean's Fellowship – <i>Peabody College, Vanderbilt University</i>	2018
Graduate Honor Fellowship – <i>Vanderbilt University</i>	2018
Graduate Assistantship – <i>Department of Applied Linguistics, UMass Boston</i>	2015

PUBLICATIONS

* co-authors

- [1] Mahowald, K.*, **Diachek, E.***, Gibson, E., Fedorenko, E., & Futrell, R. (submitted). Grammatical cues are largely, but not completely, redundant with word meanings in natural language. <https://arxiv.org/abs/2201.12911>
- [2] **Diachek, E.**, Morgan, V., & Wilson, S.M. (submitted). Adaptive language mapping paradigms for presurgical language assessment.
- [3] **Diachek, E.**, & Brown-Schmidt, S. (under review). The effect of disfluency on memory for what was said. *Journal of Experimental Psychology: Learning, Memory, Cognition*.
- [4] **Diachek, E.***, Blank, I.*, Siegelman, M.*, Affourtit, J., & Fedorenko, E. (2020). The domain-general multiple demand (MD) network does not support core aspects of language comprehension: a large-scale fMRI investigation. *Journal of Neuroscience*, 40(23), 4536-4550.
- [5] Mollica, F., Siegelman, M., **Diachek, E.**, Piantadosi, S. T., Mineroff, Z., Futrell, R., ... & Fedorenko, E. (2020). Composition is the core driver of the language-selective network. *Neurobiology of Language*, 1(1), 104-134.

IN PREPARATION

- [6] **Diachek, E.**, Brown-Schmidt, S., & Polyn, S. (in preparation). A computational model of binary semantic classification.
- [7] **Diachek, E.**, Patel, N., Brown-Schmidt, S., & Duff, M. (in preparation). Intact memory for language following disfluency in individuals with traumatic brain injury.
- [8] **Diachek, E.**, Blank, I., & Fedorenko E. (in preparation). Co-lateralization of linguistic and arithmetic processing to the left hemisphere.

CONFERENCE PRESENTATIONS

Diachek, E., Brown-Schmidt, S., & Polyn, S. A computational model of binary semantic classification. The 61st Annual Meeting of the Psychonomic Society. Virtual, November 2020.

Diachek, E., & Brown-Schmidt, S. The effect of disfluency on memory for what was said. The 61st Annual Meeting of the Psychonomic Society. Virtual, November 2020.

Diachek, E., Blank, I., & Fedorenko E. Co-lateralization of linguistic and arithmetic processing to the left hemisphere. The 20th Annual Meeting of the Society for the Neurobiology of Language. Virtual, October 2020.

Diachek, E. & Brown-Schmidt, S. The effect of disfluency on memory following sentence comprehension. The 33rd CUNY Conference on Human Sentence Processing. Amherst MA, March 2020.

Diachek, E., Siegelman, M., Blank, I. & Fedorenko, E. The domain general (MD) system does not support core aspects of language comprehension: a large-scale fMRI investigation. The 25th AMLaP Conference Architectures and Mechanisms of Language Processing. Moscow, Russia, September 2019.

Futrell, R., **Diachek, E.**, Syed, N., Gibson, E. & Fedorenko, E. Formal marking is redundant with lexico-semantic cues to meaning in transitive clauses. The 32nd CUNY Conference on Human Sentence Processing. Boulder CO, March 2019.

INVITED TALKS

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| The role of white matter tracks for language comprehension in the brain. <i>Departmental Round Table at the University of Massachusetts Boston.</i> | 2017 |
| Research methods in Cognitive Psychology. <i>Programs for Talented Youth at Vanderbilt University.</i> | 2021 |
| The neurobiology of language. <i>Programs for Talented Youth at Vanderbilt University.</i> | 2021 |
| Fun things to do with confirmatory factor analysis. <i>Structural Equation Modeling Class at Vanderbilt University.</i> | 2021 |

PROFESSIONAL DEVELOPMENT

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| 2020 | The Fourth Summer School on Statistical Methods for Linguistics and Psychology (Advanced methods in frequentist statistics track). <i>University of Potsdam, Germany</i> |
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LEADERSHIP

- Charter member of the Nashville chapter of the Graduate Women in Science.
- Member of the Graduate Workers United at Vanderbilt and the head of the Student Fees Committee.
- Graduate student liaison to the faculty for the 2021-2022 Academic Year.

MENTORSHIP

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| <i>The Conversation Lab</i> | Jasmine Aggarwal, Ameenah McKnight, Shijia Huang, Cameryn Murakami, Christina Lee, Kelsey Zhu, Bryant Reynolds, Eugene Chi |
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