

Will Decker

Curriculum Vitae

September 2024

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Education

- 2024 – Georgia Institute of Technology
Ph.D., Psychology
Advisor: Prof. Anna (Anya) Ivanova
- 2020 – 2024 Louisiana State University
B.S., Psychology; Minor, German
Advisors: Prof. Christopher Cox and Prof. Julie M. Schneider

Research Interests

- General: Concepts, language, intelligence, neuroimaging, LLMs
- Specific: Conceptual systems in humans and LLMs
Neural organization of language and meaning
Developmental approaches to cognitive and computational neuroscience

Publications

- In prep **Decker, W.**, Schneider, J. M. (in prep registered report). When Reducing Noise in Developmental EEG Data, Is EEG Best Left Alone? *Developmental Cognitive Neuroscience*.
- 2024 Fan, T., **Decker, W.**, Schneider, J. M. (August 2024). The domain-general neural basis of auditory statistical learning in children. *Neurobiology of Language*.

Sample Conference Presentations

*equal contribution

- 2024 **Decker, W.** Schneider, J.M., Cox, C. (April 2024). Neural processes of statistical learning. *Poster* presented at the annual Louisiana State University Discover Day Research Symposium. Baton Rouge, Louisiana, USA.
- 2023 **Decker, W.**, Schneider J. M., Cox, C. (October 2023). The architecture of auditory statistical learning in the brain: a dynamical functional connectivity study. *Poster* presented at the Society for the Neurobiology of Language's annual meeting. Marseille, France.
- Decker, W.**, Schneider, J. M. (September 2023). Is EEG really better left alone for developmental datasets. *Poster* presented at the annual meeting of the Society for Psychophysiological Research (SPR). New Orleans, Louisiana, USA.

Decker, W., Schneider, J. M. (July 2023). Neural signal processing for developmental data. *Lightning talk* presented at the annual LSU Summer Undergraduate Research Forum (SURF). Baton Rouge, Louisiana, USA.

Decker, W., Schneider, J. M. (July 2023). Is EEG really better left alone for developmental datasets. *Poster* presented at the annual LSU Summer Undergraduate Research Forum (SURF). Baton Rouge, Louisiana, USA.

Decker, W., Fan, T., Haebig, E., Schneider, J. M. (March 2023). Neural mechanisms of novel word learning through rhyme in adults. *Poster* presented at the Cognitive Neuroscience Society's Annual Meeting. San Francisco, California, USA.

2022 **Decker, W.,** Haebig, E., Schneider, J. M. (November 2022). Anxiety and Word Learning in College Students. *Poster* presented at the annual University of Louisiana at Lafayette Undergraduate Research Conference. Lafayette, Louisiana, USA. DOI:<https://osf.io/GNM8J>

Decker, W., Schneider, J.M. (April 2022). Choosing an EEG system: evaluating the pros and cons and quality of data among two different capping approaches. *Poster* presented at the annual Louisiana State University Discover Day Research Symposium. Baton Rouge, Louisiana, USA. DOI:<https://osf.io/6W4JF>

Invited Talks

2023 *Student Linguistics Meet-Up*
Louisiana State University
Topic: Using neuroimaging to examine statistical learning.

Joint meeting of the Department of Psychology and Department of Communication Sciences and Disorders Louisiana State University
Topic: A pipeline for developmental EEG data

Awards, Honors and Fellowships

2024 *Distinguished Undergraduate Researcher Medalist*
Louisiana State University

2024 *Paul C. Young Award for Outstanding Undergraduate in Psychology*
Louisiana State University

2024 – 2028 *President's Fellowship*
Georgia Institute of Technology
Amount: \$22,000

2023 *LSU ASPIRE Travel Award*
Louisiana State University
Amount: \$500

- 2023 *Tiger Athletic Foundation (TAF) Undergraduate Honors Thesis Scholarship*
Louisiana State University
Amount: \$1,000
- 2023 *LSU Discover Travel Award*
Louisiana State University
Amount: \$1,500
- 2022 *Distinguished Undergraduate Researcher Candidate*
Louisiana State University

Funding

- 2023 *LSU Discover Undergraduate Summer Research Grant*
LSU Discover Undergraduate Research Program, Louisiana State University
Project title: A Universal Preprocessing-Pipeline for Event-Related Potentials (ERPs) in Developmental Electroencephalography (EEG) Research.
Amount: \$3,000

Memberships

- 2023 – 2024 *Society for Psychophysiological Research*
Student Member
- 2023 – 2024 *Society for the Neurobiology of Language*
Student Member
- 2022 – 2023 *Cognitive Neuroscience Society*
Undergraduate Student Member

Skills and Other

- Languages English (native), German (C1)
Programming Python, R, MATLAB, Bash, Golang
Other LaTeX, git