

Justin Frandsen

Texas A&M University

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EDUCATION

Texas A&M University, College Station, TX, 2023 – 2028 (expected)
Doctoral Student in Cognition and Cognitive Neuroscience

University of Nebraska – Lincoln, Lincoln, NE, 2019 - 2023
Bachelor of Arts in Psychology, Minor in Anthropology

PEER-REVIEWED PUBLICATIONS

Frandsen, J. L., Stilwell, B. T., & Anderson, B. A. (in prep). *Independent suppression of multiple, salient distractors.*

Frandsen, J. L. & Anderson, B.A. (under-review). *The Role of Statistical Learning in Attentional Guidance During Search Through Naturalistic Scenes.*

AWARDS AND FELLOWSHIPS

Undergraduate Creative Activities and Research Experience (UCARE) Awards. (June 2020 - May 2023).

College of Arts & Sciences Dean's List. (Fall 2019, Fall 2021).

First Year Research Experience (FYRE) award. (September 2019 – May 2020).

PRESENTATIONS

Psychonomic Society Annual Meeting in New York City, New York 2024

Frandsen, J. L., Francesca, C., Ferrari, V., & Anderson, B. A. (Poster presentation). Relating Aversive Conditioning and Emotional Valence in the Control of Attention

The Association for Research in Memory, Attention, Decision-making, Imaging, Language, Learning, and Organization (ARMADILLO) conference in College Station, Texas 2024

Frandsen, J. L. & Anderson, B. A. (Poster presentation). The Role of Statistical Learning in Attentional Guidance During Search Through Naturalistic Scenes

Vision Sciences Society Annual Meeting in St. Pete Beach, Florida 2024

Frandsen, J. L. & Anderson, B. A. (Poster presentation). The Role of Statistical Learning in Attentional Guidance During Search Through Naturalistic Scenes

University of Nebraska – Lincoln Undergraduate Research Fair 2023

Frandsen, J. L. & Dodd, M. D. (Poster presentation). The role of color association in emotion processing

University of Nebraska – Lincoln Undergraduate Research Fair 2023

Frandsen, J. L., Lintz, E., Lowery, M., Molzer, L., Johnson, M., & Dodd, M. D. (Poster presentation).
Neurobiological evidence

University of Nebraska – Lincoln Undergraduate Research Fair 2022

Frandsen, J. L. & Dodd, M. D. (Poster presentation). Clutter chaos: Desk organization effects cognitive processing.

University of Nebraska – Lincoln Virtual Summer Research Symposium 2021

Frandsen, J. L. & Dodd, M. D. (Virtual presentation). Clutter and Cognition.

University of Nebraska – Lincoln Student Research Days 2021

Frandsen, J. L. & Dodd, M. D. (Virtual presentation). Examining the relationship between music perception and emotion perception.

RESEARCH EXPERIENCES

Graduate Research Assistant, *Independent suppression of multiple, salient distractors*. (November 2024 – Present). Dr. Brian Anderson's Learning and Attention Lab. Texas A&M University: College Station, TX. Collaborated with Dr. Brad Stilwell.

- The purpose of this project was to examine how both dynamic and static salient distractors are suppressed.
- In this experiment I took part in experiment creation and design, data analysis, and I will take part in writing-up the results.

Graduate Research Assistant, *The Role of Statistical Learning in Attentional Guidance During Search Through Naturalistic Scenes* (June 2023 – Present). Dr. Brian Anderson's Learning and Attention Lab. Texas A&M University: College Station, TX.

- The purpose of this project was to examine how object-location associations are made in naturalistic scenes.
- In this Experiment I took part in experiment creation and design, data analysis, and presented my findings at VSS 2024 and am currently working to finish analysis and writing up the results.

Graduate Research Assistant, *Relating aversive conditioning and emotional valence in the control of attention* (November 2023 – November 2024). Dr. Brian Anderson's Learning and Attention Lab. Texas A&M University: College Station, TX.

- The purpose of this project was to examine how aversive condition and emotional valence interact in the capture of attention.
- In this Experiment I took part in experiment creation and design, and data analysis

Undergraduate Research Assistant, *Reflection and forgetting* (August 2022 – February 2024). Dr. Michael Dodd's VAMP Lab. University of Nebraska – Lincoln: Lincoln, NE. Collaborated with Evan Lintz.

- EEG experiment examining how removal from working memory occurs.

- In this Experiment took part in EEG cap application, data collection, and data analysis in MATLAB.

Undergraduate Research Assistant, *Perception, memory, and ambiguity* (UCARE). (August 2022 – Present). Dr. Michael Dodd’s VAMP Lab. University of Nebraska – Lincoln: Lincoln, NE. Collaborated with Sophia Smyth.

- The purpose of this project was to examine the role of color in the processing of emotion in words and faces.
- I worked with Dr. Dodd to create this study’s procedure, collected participants, and analyzed data using the R programming language.

Undergraduate Research Assistant, *Methods of measuring individual differences in emotion processing* (June 2021 - July 2022). University of Nebraska – Lincoln: Lincoln, NE. Collaborated with Dr. Nathan Petro.

- The purpose of this study was to examine the neural correlates underlying emotion processing
- In this project I took part in EEG cap application, data collection, and data cleanup.

Undergraduate Research assistant, *Attention and working environments* (UCARE). (June 2021 – May 2022). Dr. Michael Dodd’s VAMP Lab. University of Nebraska – Lincoln: Lincoln, NE.

- The purpose of this project was to examine how desk organization effects working memory and attention.
- I worked with Dr. Dodd on this project to design desk conditions and create the study procedure. I then collected participants, analyzed data using R, and presented my findings at the UNL Spring research fair.

Undergraduate Research Assistant, *Animal numeracy literature review* (August 2021 – October 2021). Dr. Jeffrey Steven’s Canine Cognition and Human Interaction Lab. University of Nebraska – Lincoln: Lincoln, NE.

- In this project we examined the current literature on animal numeracy and explored if researchers had biases in the methodology used on different species.

Undergraduate Research Assistant, *Cognition and music* (UCARE). (June 2020 – December 2021). Dr. Michael Dodd’s VAMP Lab. University of Nebraska – Lincoln: Lincoln, NE.

- This project was designed to investigate how music perception interacts with emotion perception.
- In this project I worked with Dr. Dodd to design the study procedure. I recorded major and minor arpeggios on my guitar for the auditory stimuli. I then collected participants.

Undergraduate Research Assistant, *Task switching* (January 2020 – October 2021). Dr. Michael Dodd’s VAMP Lab. University of Nebraska – Lincoln: Lincoln, NE.

- In this project I collected participants on a visual search task where participants needed to either complete a memory, a letter search, or preference rating task. Participants were not informed which of the three tasks would be cued until after viewing the scene.

Undergraduate Research Assistant, *Assessing the effect of Programming Language and on eye movements* (October 2019 – December 2019). Dr. Sharif’s Software Engineering Research and Empirical Studies Lab. University of Nebraska – Lincoln: Lincoln, NE.

- The purpose of this project was to examine how expertise affects eye movements on a bug fixing programming task.
- I took part in writing, data cleaning with R, graph making in R, and other analysis related tasks.

Undergraduate Research Assistant, *Object perception* (August 2019 – October 2019). Dr. Michael Dodd's VAMP Lab. University of Nebraska – Lincoln: Lincoln, NE.

- In this project I assisted in data collection on a task where participants were shown arrays of dots and participants were asked to rate how spread out on average the array was.

WORK EXPERIENCE

Graduate Research assistant (June 2023 – Present). *Dr. Brian Anderson's Attention and Learning Lab*. Texas A&M University: College Station, TX.

Undergraduate Research assistant (UCARE). (June 2020 – May 2023). *Dr. Michael Dodd's Vision, Attention, Memory, and Perception (VAMP) Lab*. University of Nebraska – Lincoln: Lincoln, NE.

Hardware associate (January 2019 – December 2021). *True Value Hardware*. Gordon, NE.

SKILLS

- SPSS
- R
- Python
- MATLAB
- JASP
- Eyelink 1000 setup
- EEG Data Collection
- Microsoft office (Word, Excel, PowerPoint, etc.)

MEDIA

Online Article. (September 2022). Brain wave study offers hands-on research experience for psych students. *The Daily Nebraskan*. Can be retrieved at https://www.dailynebraskan.com/news/brain-wave-study-offers-hands-on-research-experience-for-psych-students/article_7eadccc-3555-11ed-9233-6be5e0e86cf4.html