

Jude Singleton

PREDICTIVE PROCESSING | CROSS-DIALECTAL VARIATION | BILINGUALISM

Brain, Language, and Bilingualism Lab

Department of Linguistics, University of Florida

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RESEARCH INTERESTS

My research focuses on the intersection of bilingual language comprehension and broader predictive dynamics of online processing. Using a neurophysiological (EEG) and NLP (Transformer-Based Large Language Model) guided approach, I am principally interested in identifying how bilinguals generate expectations about low-surprisal items in their L1 and L2 and how this prediction unfolds across types of cues and during syntactic dependency parsing. I connect this research to broader interests in clarifying individual-, group-, and paradigm-level differences in predictive processing by integrating experiential, socio-pragmatic, and instructional manipulations into eye-tracking work within the Visual World Paradigm. I situate my research as an effort to explicate the automaticity, pervasiveness, and homogeneity of the anticipatory language component under a multi-dimensional analytic lens.

EDUCATION

- [2025:6] M.A. in Linguistics**
University of Florida (**Advisors:** Edith Kaan & Jorge Valdés Kroff)
GPA: 4.0
- [2021:5] B.A. w. honors in Linguistics & English, *summa cum laude***
University of Florida (**Advisor:** Emily Rine Butler)
GPA: 4.0

EMPLOYMENT

- [2026: Lab Manager: “Investigating predictive processing in naturalistic second-language comprehension through EEG and computational modeling” | University of Florida**
NSF Award No. BCS-2518248 awarded to Edith Kaan & Teresa Bajo
(\$225,482)
- [2024:26] Graduate Annotator: “Reanimating African American Oral Histories of the Gulf South.” | University of Florida**
NEH Award No. PW-277433-21 awarded to Kevin Tang, Paul Ortiz, Stephanie Birch, Deborah Hendrix, Laura Spears, Brittany Kester, Joshua Martin, & Rebekah A. Cordova
(\$349,990)

FUNDING & AWARDS

{AWARDS}

- [2026] Graduate Student Travel Award (\$400) | University of Florida**

- [2024] **Michael A. Lipsky Memorial Scholarship (\$600) | University of Florida**
- [2023] **Charles Vincent and Heidi Cole McLaughlin Endowment Scholarship (\$1.5k) | University of Florida**
- {HONORS}
- [2025] **University Honors | University of Florida**
(Final Thesis: “*Mach Phonics*: Problematizing Narratives of Authenticity in a Haitian-American Hip Hop Performance”)
- [2023] **Phi Beta Kappa | University of Florida**

PRESENTATIONS

{ORAL PRESENTATIONS}

Singleton, J., Treadway, H., Kuntz, C., Lotze, E., Valdés Kroff, J., Grüter, T., & Kaan, E. 2025. Can attention modulate predictive eye-movements in sentence processing? Paper presented at Florida Psycholinguistics Meeting. (Tallahassee, Florida). February 15.

{POSTER PRESENTATIONS}

**denotes (under)graduate co-presenter.*

Singleton, J., Treadway, H., Kuntz, C., Grüter, T., Valdés Kroff, J., & Kaan, E. 2026. Task effects on predictive eye-movements. Poster presented at 39th Annual Conference on Human Sentence Processing. Massachusetts Institute of Technology (Cambridge, Massachusetts). March 26-29.

Singleton, J., Treadway, H., Kuntz, C., Suarez, D., Lotze, E., Valdés Kroff, J., Grüter, T., & Kaan, E. 2025. Can attention (and task) modulate predictive eye-movements in sentence processing? Poster presented at Florida Linguistics Yearly Meeting. University of Florida (Gainesville, Florida). October 11.

Kaan, E., Treadway, H., **Singleton, J.**, Kessler, A., Kuntz, C., Valdés Kroff, J., & Grüter, T. 2024. Can attention modulate prediction in sentence processing? Prediction and attention: An eye-tracking study. Poster presented at 37th Annual Conference on Human Sentence Processing. University of Michigan (Ann Arbor, Michigan). May 16-18.

*Treadway, H., **Singleton, J.**, Kessler, A., Kuntz, C., Valdés Kroff, J., Grüter, T., & Kaan, E. 2023. Can attention modulate prediction in sentence processing? Prediction and attention: An eye-tracking study. Poster presented at Florida Psycholinguistics Meeting. University of Florida (Gainesville, Florida). October 21.

PUBLICATIONS

{UNDER REVIEW}

Singleton, J., Treadway, H., Kuntz, C., Grüter, T., Valdés Kroff, J., & Kaan, E. (*in prep*). Task effects on predictive eye movements. https://doi.org/10.31234/osf.io/f2a9x_v1

RESEARCH

[denotes ongoing research; [] denotes completed research.

- [2026:] Lab Manager: Brain, Language, and Bilingualism Lab
University of Florida**
- ⇒ Experiment design & programming: Experiment Builder; E-Prime; Praat; Qualtrics, Google Forms, Lime Survey
 - EEG: resting state, Rapid Serial Visual Presentation, auditory presentation, naturalistic listening paradigms
 - Behavioral data: metalinguistic/cognitive batteries <LexTALE, LexTALE-Esp, MELLICET, DELE, handedness>
 - ⇒ Data pre-processing & analysis: MATLAB: EEG/ERPLAB; R Studio; Transformer-Based Large Language Models, OpenNeuro, Dropbox
 - ⇒ Supervision of undergraduate researchers conducting EEG data collection, pre-processing, & analysis
 - ⇒ Management of participant scheduling for 3 ongoing EEG experiments, lab inventory, and general organization: SONA, Excel
- [2022:] Member: Brain, Language, and Bilingualism Lab
(PI: Dr. Edith Kaan) | University of Florida**
- ⇒ Experiment design & programming: Experiment Builder; Praat; Qualtrics; Google Forms
 - Eye-tracking <portable/desk-mounted>: Visual World Paradigm, EyeLink
 - EEG: Rapid Serial Visual Presentation
 - ⇒ Data pre-processing & analysis: R Studio, Data Viewer
- [2024:] Member: Machine Learning for Endangered Language Documentation Lab
(PI: Dr. Sarah Moeller) | University of Florida**
- ⇒ Featural annotation <African American English>: Excel
 - ⇒ Historical documentation preservation: Dropbox
 - ⇒ Data pre-processing: Github, Universal Dependencies
- [2024] Independent Researcher: “Mach Phonics: Problematizing Narratives of Authenticity in a Haitian-American Hip Hop Performance”
(Advisor: Dr. Emily Rine Butler) | University of Florida**
- ⇒ Data collection: Excel
 - ⇒ Transcription & translation

- Haitian Creole, French, Spanish, German

TEACHING & WORKSHOPS

{COURSES}

[2025] COM4704: Language & Social Interaction | University of Florida
Teaching assistant, 1 section, non-grading

{WORKSHOPS}

[2026] Eye-tracking Demonstration for Incoming RAs | University of Florida
Graduate student presenter & co-organizer

[2025] EEG and Eye-tracking Demonstration for SPN6806: Psychology of Bilingualism, Bilingual Minds and Brains | University of Florida
Undergraduate student presenter & co-organizer

COMMUNITY ENGAGEMENT

[2025] Portable Eye-tracking Demonstration for Science Outreach Day | CADE Museum for Creativity and Invention, Gainesville, FL
Graduate student presenter

[2025] Portable Eye-tracking Demonstration for “Girls Do Science” | Harn Museum of Art, Gainesville, FL
Undergraduate student presenter & co-organizer