

ELEONORA J. BEIER

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EDUCATION

Ph. D. Psychology University of California, Davis	March 2019 – Sept. 2022 Davis, CA
M. A. Psychology University of California, Davis	Sept. 2016 – March 2019 Davis, CA
B. A. Psychology, Concentration: Mind, Brain and Behavior Bard College	Aug. 2012 – May 2016 Annandale-on-Hudson, NY

RESEARCH POSITIONS

Postdoctoral Scholar Advisor: Dr. Laura Gwilliams - Intracranial EEG, Machine Learning Decoding methods - Project title: <i>The Role of Expected Informativity on Linguistic and Memory Encoding.</i>	Sept. 2025 – present Department of Psychology, Stanford University
Postdoctoral Scholar Advisors: Dr. George R. Mangun, Dr. Tamara Y. Swaab - ERPs, Time-Frequency analysis of EEG - Project title: <i>The Role of Temporal Prediction in Guiding Attention through Time during Language Comprehension.</i>	Sept. 2022 – Aug. 2025 Center for Mind and Brain, UC Davis
Visiting Scholar Collaborators: Dr. Yulia Oganian, Dr. Assaf Breska Computational modeling of neural oscillations	May 2024, Jan–March 2025 Max Planck Institute for Biological Cybernetics University of Tübingen
Doctoral Student Advisor: Dr. Fernanda Ferreira - Eye-tracking, Skin Conductance, Behavioral methods (reaction times, self-paced reading, surveys) - Dissertation title: <i>Information Structure in Language Comprehension: Cognitive Mechanisms Involved in Syntactic, Prosodic and Discourse Focus.</i>	Sept. 2016 – Aug. 2022 Psychology Program, UC Davis

PUBLICATIONS

- Henke, L., **Beier, E. J.**, Roll, M., & Meyer, L. (accepted; in press). Cognitive and Neural Constraints on Timing and Rhythm in Language. In L. Meyer & A. Strauss (Eds.), *Rhythms of Speech and Language: Culture, Cognition, and the Brain*. Cambridge University Press. <https://doi.org/10.31234/osf.io/smdky>
- Beier, E. J.***, Cohn, M.*, Trammel, T., Ferreira, F., & Zellou, G. (2024). Marking prosodic prominence for voice-AI and human addressees. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 51(6), 986–1003. <https://doi.org/10.1037/xlm0001396> * These authors contributed equally.
- Beier, E. J.***, Chantavarin, S.*, & Ferreira, F. (2023). Do disfluencies increase with age? Evidence from a sequential corpus study of disfluencies. *Psychology and Aging*, 38(3), 203–218. <https://doi.org/10.1037/pag0000741> * These authors contributed equally.
- Coretta, S., Casillas, J., ... **Beier, E. J.**, ... & Roettger, T. (2023). Multidimensional signals and analytic flexibility: Estimating degrees of freedom in human speech analyses. *Advances in Methods and Practices in Psychological Science*, 6(3), 25152459231162567. <https://doi.org/10.1177/25152459231162567>
- Beier, E. J.**, & Ferreira, F. (2022). Replication of Cutler, A., & Fodor, J. A. (1979). Semantic focus and sentence comprehension. *Cognition*, 7(1), 49–59. *Journal of Memory and Language*, 126, 104339. <https://doi.org/10.1016/j.jml.2022.104339>

- Beier, E. J., Janata, P., Hulbert, J. C., & Ferreira, F. (2022).** Do you chill when I chill? A cross-cultural study of strong emotional responses to music. *Psychology of Aesthetics, Creativity, and the Arts*, 16(1), 74–96. <https://doi.org/10.1037/aca0000310>
- Beier, E. J., Chantavarin, S., Rehrig, G., Ferreira, F., & Miller, L. M. (2021).** Cortical tracking of speech: Towards collaboration between the fields of signal and sentence processing. *Journal of Cognitive Neuroscience*, 33 (4), 574–593. <https://doi.org/10.1162/jocn.a.01676>
- Beier, E. J., & Ferreira, F. (2018).** The temporal prediction of stress in speech and its relation to musical beat perception. *Frontiers in Psychology*, 9, 431. <https://doi.org/10.1101/2025.07.05.663298>

Pre-Prints & In Progress

- Beier, E. J., Breska, A., Miller, L., Oganian, Y., Mangun, G., & Swaab, T. (2025; under review).** Discourse Focus and Memory Encoding: The Role of Trial-Level Alpha Power. *BioRxiv*, 663298, <https://doi.org/10.1101/2025.07.05.663298>
- Beier, E. J., Zhou, A., & Ferreira, F. (under review).** “What we found was...” Syntactic cues to information structure affect semantic predictions about focused and de-focused words.

AWARDS AND HONORS

Grants

Short-term Research Grant German Academic Exchange Service (DAAD) (\$7,145)	2024–2025
Ruth L. Kirschstein Postdoctoral Individual National Research Service Award (F32) National Institutes of Health (\$210,154)	2022–2025
Graduate Research Fellowship National Science Foundation (\$138,000)	2016–2021

Other Funding Awards

SNL Travel Award Society for the Neurobiology of Language (\$550)	2023
Graduate Conference Award Psychonomic Society (\$1,000)	2022
Dissertation Enhancement Fellowship University of California, Davis (\$7,740)	2022
Dukes Travel Award University of California, Davis (varies, up to \$1,000)	2018
Paid Summer Internship Bard Summer Research Institute (\$3,000)	2015
Research Experience for Undergraduates National Science Foundation (\$5,000)	2014

Academic Awards & Honors

Selected for Early Career Roundtable Symposium for Cognitive Auditory Neuroscience	2021
Dr. Siegel Memorial Prize in Science for academic excellence Bard College	2016
John Bard award for outstanding academic achievement Bard College	2015

Werner Wolff award for excellence in the field of psychology Bard College	2014
Course Design Contest Winner Experimental Humanities, Bard College	2014
Professional Memberships	
Psi Chi International Honor Society in Psychology; SPARK Society; Cognitive Neuroscience Society; Psychonomic Society; Society for Music Perception and Cognition; Society for the Neurobiology of Language	

TEACHING AND MENTORING

Teaching Experience

Instructor of Record Cognitive Psychology	Summer 2020 UC Davis
Discussion Leader General Psychology	Winter 2019 UC Davis
Teaching Assistant Cognitive Psychology (x3), Language and Cognition (x2), Psychology of Music, Social Development	2018–2022 UC Davis
Course Designer Experimental Humanities	2014–2015 Bard College
Designed and organized a new course titled <i>A Comparative Approach to Music Cognition</i>.	

Mentoring Experience

Volunteer Mentor SPARK Society Undergraduate Conference Experience	November 2023
Guided undergraduates through their first poster session experience at the Psychonomic Society 64th Meeting.	
Mentor-Mentee Program in Humanities, Arts, Cultural Studies and Social Sciences, UC Davis	2021
One-on-one mentoring of undergraduates over one year, providing help in applying to research positions.	
Psychology Graduate Peer Mentoring Program, UC Davis	2020–2021
Helped to integrate first-year graduate students into the department during remote learning.	
Psychology Tutor and Peer Mentor Co-creator of a study room offering peer tutoring in Psychology.	2014–2016 Bard College
Tutor of English as a Second Language Learning Commons	2014–2015 Bard College

Formal Training

Mentoring Training Global Affairs Career Enhancement Certificate: Exploring DEI to Help Create an Inclusive Workplace	Spring 2023
Sacramento Valley Association for Women in Science Mentorship Program	Spring 2023
Teaching Training Teaching Practicum in Cognitive Psychology	Winter 2020
Teaching Psychology Graduate Course	Spring 2018

SERVICE AND OUTREACH

Conference Organizer/Volunteer

Organizer, 3rd meeting of the Bay Area Language Processing Interest Group 2025
Volunteer, 13th Meeting of the Society for the Neurobiology of Language 2021
Organizer, UC Davis Spring Psychology Conference 2018–2019
Travel Award Coordinator, 31st Annual Human Sentence Processing Conference 2018

Journal Peer Reviewer

2018–present

Frontiers in Human Neuroscience; Neuropsychologia; Laboratory Phonology; Cognition; i-Perception;
Journal of Experimental Psychology: Learning, Memory, and Cognition; Musicae Scientiae; Psychophysiology;
iScience; Journal of Memory and Language; Psychology and Aging; Nature Communications

Grant Reviewer

2024

Marsden Fund

Graduate Student Representative

2017–2019

Psychology Graduate Student Association, UC Davis

Invited Panelist/Volunteer Speaker

F Award Writing Workshop, UC Davis 2023–2025
NSF GRFP Workshop, UC Davis 10/9/2020
Grant Writing Panel, UC Davis 10/21/2022, 10/14/2020, 11/13/2019
Psi Chi Graduate Student Panel, UC Davis 10/15/2019

Public Outreach

Interview on the Because Language podcast 2023
Interview with the UC Davis Cluster on Language Research 2023
Interview with Raga Academy of Indian Music 2023
Volunteer, Speech Science booth, Picnic Day, UC Davis 2023
Organizer, Psychological illusions outreach event, Picnic Day Pre-week, UC Davis 2019

PRESENTATIONS

Invited Talks

- Beier, E. J., Breska, A., Miller, L., Oganian, Y., Mangun, G., & Swaab, T. (2023).** The role of temporal prediction in guiding attention through time during language comprehension. *Psycholinguistic Research Group, Department of Psycholinguistics*. University of Mannheim, Germany.
- Beier, E. J., Breska, A., Miller, L., Oganian, Y., Mangun, G., & Swaab, T. (2023).** The role of temporal prediction in guiding attention through time during language comprehension. *Cluster on Language Research*. University of California, Davis, CA.
- Beier, E. J., Cohn, M., Trammel, T., Ferreira, F., & Zellou, G. (2021).** Prosodic focus in speech directed toward human vs. voice-AI interlocutors. *Cluster on Language Research*. University of California, Davis, CA.

Talks

- Beier, E. J., Zhou, A.*, & Ferreira, F. (2024).** The interaction of syntactic focus and semantic predictability in comprehension. *California Meeting on Psycholinguistics*. Stanford University, CA. * Mentored student co-presenter.
- Beier, E. J., Cohn, M., Trammel, T., Ferreira, F., & Zellou, G. (2021).** Prosodic focus in speech directed toward human vs. voice-AI interlocutors. *Language-Music-Gesture: Information Crossroads*. Hosted virtually by the University of St. Petersburg, Russia.
- Ferreira, F., Rehrig, G., Barker, M., **Beier, E. J.**, Chantavarin, S., Cotter, B., Qiu, Z., Lowder, M., & Karimi, H. (2021). Back to the future: Do influential results from 1980s psycholinguistics replicate? *34rd Annual Human Sentence Processing Conference*. Hosted virtually by the University of Pennsylvania.

- Beier, E. J., Chantavarin, S., & Ferreira, F. (2020).** Age doesn't matter, but speech rate does: A longitudinal corpus study of disfluencies. *Psychonomic Society 61st Annual Meeting*. Hosted virtually. (Featured as part of a special coverage)
- Beier, E. J., Chantavarin, S., & Ferreira, F. (2019).** Age doesn't matter, but speech rate does: A longitudinal corpus study of disfluencies. *California Meeting on Psycholinguistics*. University of California, Santa Cruz, CA.
- Beier, E. J., Janata, P., Hulbert, J., & Ferreira, F. (2019).** Similar acoustic events lead to strong emotional responses in music across cultures. *Biennial Meeting of the Society for Music Perception and Cognition*. New York University, New York City, NY.
- Beier, E. J., Janata, P., Hulbert, J., & Ferreira, F. (2018).** Do you chill when I chill? A cross-cultural study of strong emotional responses to music. *Spring Psychology Conference*. University of California, Davis, CA.
- Beier, E. J., Janata, P., Hulbert, J., & Ferreira, F. (2017).** Do you chill when I chill? A cross-cultural study of strong emotional responses to music. *International summer school: Music, language and cognition*. Lake Como School of Advanced Studies, Como, Italy.
- Beier, E. J., Rehrig, G., & Stromswold, K. (2015).** Acoustic cues for active and passive structure vary for different verbs. *Westchester Undergraduate Research Conference*. Manhattanville College, Purchase, NY.

Posters

- Beier, E. J. & Gwilliams, L. (2024).** Using intracranial EEG to study the effect of prosody on attention and linguistic encoding during naturalistic listening. *Society for the Neurobiology of Language 16th Annual Meeting*. Brisbane, Australia.
- Beier, E. J., Breska, A., Miller, L., Oganian, Y., Mangun, G., & Swaab, T. (2024).** Temporal predictions guide attention to linguistically focused words during spoken language comprehension. *Society for the Neurobiology of Language 16th Annual Meeting*. Brisbane, Australia.
- Beier, E. J., Breska, A., Miller, L., Oganian, Y., Mangun, G., & Swaab, T. (2023).** The role of anticipatory attention during spoken language comprehension and its encoding in alpha amplitude modulations. *Society for the Neurobiology of Language 15th Annual Meeting*. Marseille, France. (Recipient of the SNL Travel Award)
- Beier, E. J., Kinnear, S.*, Mangun, G., & Swaab, T. (2023).** The influence of L2 Spanish on L1 English expectations about upcoming information structure: an EEG study. *Psychonomic Society 64th Annual Meeting*. San Francisco, CA. * Mentored student co-presenter.
- Beier, E. J., Breska, A., Miller, L., Oganian, Y., Mangun, G., & Swaab, T. (2023).** The role of anticipatory attention during spoken language comprehension and its encoding in alpha amplitude modulations. *Cognitive Neuroscience Society Annual Meeting*. San Francisco, CA.
- Beier, E. J., & Ferreira, F. (2022).** Discourse focus facilitates processing during online sentence comprehension: A successful replication of Cutler and Fodor's (1979) influential findings. *Psychonomic Society 63rd Annual Meeting*. Boston, MA. (Recipient of the Psychonomic Society Graduate Conference award)
- Beier, E. J., Cohn, M., Ferreira, F., & Zellou, G. (2021).** Prosodic focus in human- versus voice-AI-directed speech. *Linguistic Society of America 95th Annual Meeting*. Hosted virtually. (Featured as part of a media advisory)
- Beier, E. J., & Ferreira, F. (2020).** The interaction of syntactic focus and semantic predictability in comprehension. *33rd Annual Human Sentence Processing Conference*. Hosted virtually by the University of Massachusetts, Amherst, MA.
- Beier, E. J., Chantavarin, S., & Ferreira, F. (2020).** Age doesn't matter, but speech rate does: A longitudinal corpus study of disfluencies. *33rd Annual Human Sentence Processing Conference*. Hosted virtually by the University of Massachusetts, Amherst, MA.
- Beier, E. J., Janata, P., Hulbert, J., & Ferreira, F. (2019).** Do you chill when I chill? A cross-cultural study of strong emotional responses to music. *Spring Psychology Conference*. University of California, Davis, CA.

- Beier, E. J., Janata, P., Hulbert, J., & Ferreira, F. (2018).** Do you chill when I chill? A cross-cultural study of strong emotional responses to music. *Psychonomic Society 59th Annual Meeting*. New Orleans, LA.
- Beier, E. J., Rehrig, G., & Stromswold, K. (2015).** Acoustic cues for active and passive structure vary for different verbs. *Eastern Psychological Association Conference*. Philadelphia, PA.