

Elise Anne LeBovidge

she or they

Department of Speech and Hearing Sciences
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Education

- 2018 - present** *Doctor of Philosophy (in progress), Speech and Hearing Sciences*
University of Washington (Seattle, WA)
Faculty advisor: Ludo Max, Ph.D., CCC-SLP
Committee members: Ludo Max (chair), David Perkel, Richard Wright, and Chet Moritz
Dissertation: "Towards a deeper understanding of pre-speech sensory modulation in stuttering"
- 2014 - 2018** *Bachelor of Science and Arts, Chemistry (Honors)*
The University of Texas at Austin (Austin, TX)
Polymathic Scholar (Concentration: *The Neuroscience of Speech Production*)
Honors thesis: "Non-native Tone Production: A Brain-Behavior Relationship?"
Faculty advisor: Bharath Chandrasekaran, Ph.D.
- 2014 - 2018** *Bachelor of Arts, Linguistics*
The University of Texas at Austin (Austin, TX)
Minor: French

Research Interests

stuttering, auditory processing, sensorimotor control, speech physiology, neural control of movement
disability, science communication, accessibility

Teaching Interests

stuttering, speech and hearing physiology & anatomy, sensorimotor neuroscience
health disparities, research methods, data visualization, science communication, disability, accessibility

Research Appointments

- 2019 - present** *Doctoral Research Assistant - Laboratory for Speech Physiology & Motor Control*
Advisor: Ludo Max, Ph.D., CCC-SLP
"Dynamic bidirectional sensorimotor interactions in stuttering"
NIH grant no. R01 DC017444 (PI: Ludo Max, Ph.D., CCC-SLP)
Department of Speech & Hearing Sciences
University of Washington
- 2021 - 2022** *Predoctoral Trainee - TL1 Translational Research Training Program*
Project title: "Pre-speech auditory modulation as a state biomarker of stuttering"
NIH grant no. TL1 TR002318 (PI: Joanne Whitney, Ph.D., RN, CWCN, FAAN)
Institute of Translational Health Sciences
University of Washington

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- 2018 - 2021** *Doctoral Research Assistant - Laboratory for Speech Physiology & Motor Control*
 Advisor: Ludo Max, Ph.D., CCC-SLP
 “Adaptive sensorimotor learning in speech production”
 NIH grant no. R01 DC014510 (PI: Ludo Max, Ph.D., CCC-SLP)
 Department of Speech & Hearing Sciences
 University of Washington
- 2016 - 2018** *Research Assistant - SoundBrain Lab*
 Advisor: Bharath Chandrasekaran, Ph.D.
 Department of Communication Sciences & Disorders
 The University of Texas at Austin
- 2015 - 2017** *Research Assistant - The Meaning of Verbal Roots Across Languages*
 Advisor: John Beavers, Ph.D.
 NSF grant no. BCS-1451765 (PI: John Beavers, Ph.D.)
 Department of Linguistics
 The University of Texas at Austin
- 2015 - 2016** *Research Assistant - Supramolecular Sensors Lab*
 Advisor: Eman Ghanem, Ph.D. (PI: Eric Anslyn, Ph.D.)
 Freshman Research Initiative (FRI)
 Department of Chemistry & Biochemistry
 The University of Texas at Austin

Peer-reviewed Journal Articles

- LeBovidge, E. & Max, L. (In preparation).** Auditory target drifts do not account for the limited extent of auditory-motor adaptation in speech production.
- Zimmerman, R., Choi, E., Cai, R., **LeBovidge, E.**, & Pace, A. **(In preparation).** Diversity Training in a Speech & Hearing Sciences Department.
- Beavers, J., Everdell, M., Jerro, K., Kauhanen, H., Koontz-Garboden, A., **LeBovidge, E.**, & Nichols, S. **(2022).** States and changes-of-state: A crosslinguistic study of the roots of verbal meaning. *Language.*, 97(3).
<https://doi.org/10.1353/lan.0.0254>. [Project website here.](#)
- Ghanem, E., Afsah, S., Fallah, P., Lawrence, A., **LeBovidge, E.**, Raghunathan, S., Rago, D., Ramirez, M., Telles, M., Winkler, M., Schumm, B., Makhnejia, K., Portillo, D., Vidal, R., Hall, A., Yeh, D., Judkins, H., Da Siva, A., Franco, D., & Anslyn, E. **(2017).** Differentiation and identification of cachaça wood extracts using peptide-based receptors and multivariate data analysis. *ACS Sens.*, 2(5), 641-647.
<https://doi.org/10.1021/acssensors.6b00809>.

Conference Proceedings

- Beavers, J., Everdell, M., Jerro, K., Kauhanen, H., Koontz-Garboden, A., **LeBovidge, E.**, & Nichols, S. **(2017).** *Two Types of States: A Cross-linguistic Study of Change-of-State Verb Roots.* *Proc Ling Soc Amer.*, 2 (38), 1-15. <https://doi.org/10.3765/plsa.v2i0.4094>.

Refereed Conference Presentations

- LeBovidge, E.**, Ali, Y., Wang, H., Kitchen, N., Kim, K.S., & Max, L. **(2022, August).** *The paradoxical case of 'followers' in studies of speech auditory-motor adaptation.* Poster abstract accepted for presentation at the 8th International Conference on Speech Motor Control. Nijmegen, The Netherlands. Opted not to attend conference due to COVID-19 risks.
- LeBovidge, E.**, & Berlingeri, Amanda C. **(2022, March).** *Outreach and Education in Speech and Hearing Sciences.* Poster presented at Science Talk '22, Portland, OR.

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- Koontz-Garboden, A., Bowler, M., Hanink, E., Hopperdietzel, J., Bannard, C., Everdell, M., Francez, I., Jerro, K., **LeBovidge, E.**, & Nichols, S. **(2022, April)**. *State/change of state lability and the meaning of verbhood*. Talk given by collaborators at The 45th Generative Linguistics in the Old World (GLOW) Colloquium. London, England.
- Bowler, M., Hanink, E., Hopperdietzel, J., Koontz-Garboden, A., Bannard, C., Everdell, M., Francez, I., Jerro, K., **LeBovidge, E.**, & Nichols, S. **(2022, February)**. *State/change of state lability and the meaning of verbhood*. Virtual talk given by collaborators at the 44th Deutschen Gesellschaft für Sprachwissenschaft (DGfS) annual meeting.
- LeBovidge, E.**, & Max, L. **(2021, April)**. *Perceptual target shifts do not account for the limited extent of auditory-motor adaptation in speech production*. Virtual poster presented at the 30th annual Neural Control of Movement meeting.
- LeBovidge, E.**, Li, C., & Max, L. **(2020, December)**. *Toward understanding the limiting factors in speech auditory-motor adaptation: a new look at perceptual targets*. Virtual poster presented at the 12th International Seminar on Speech Production. [Poster available here](#).
- LeBovidge, E.**, & Max, L. **(2020, February)**. *Anchoring speakers' auditory targets via playback of typical productions does not facilitate auditory-motor adaptation*. Poster presented at the 20th Biennial Conference on Motor Speech, Santa Barbara, CA.
- LeBovidge, E.**, Llanos, F., & Chandrasekaran, B. **(2018, April)**. *Non-native Tone Production: A Brain-Behavior Relationship?* Poster presented at The University of Texas at Austin, Longhorn Research Bazaar, Austin, TX.
- LeBovidge, E.**, Llanos, F., & Chandrasekaran, B. **(2018, April)**. *Non-native Tone Production: A Brain-Behavior Relationship?* Poster presented at The University of Texas at Austin, Department of Linguistics: Undergraduate Research Day, Austin, TX.
- LeBovidge, E.**, Beavers, J., Everdell, M., Jerro, K., Kauhanen, H., Koontz-Garboden, A., & Nichols, S. **(2017, April)**. *Two Types of States: A Cross-linguistic Study of Change-of-State Verb Roots*. Presented at The University of Texas at Austin, Department of Linguistics: Undergraduate Research Day, Austin, TX. [Handout available here](#).
- LeBovidge, E.**, Beavers, J., Everdell, M., Jerro, K., Kauhanen, H., Koontz-Garboden, A., & Nichols, S. **(2017, April)**. *Two Types of States: A Cross-linguistic Study of Change-of-State Verb Roots*. Poster presented at The University of Texas at Austin, College of Liberal Arts: Honors Day Reception, Austin, TX. [Poster available here](#).
- Beavers, J., Everdell, M., Jerro, K., Kauhanen, H., Koontz-Garboden, A., **LeBovidge, E.**, & Nichols, S. **(2017, January)**. *Two Types of States: A Cross-linguistic Study of Change-of-State Verb Roots*. Presented at the 91st Annual Meeting of the Linguistic Society of America, Austin, TX. [Handout available here](#).
- LeBovidge, E.**, Makneja, K., Rago, D., Schumm, B., Telles, M., Winkler, M., Ghanem, E., Franco, D., & Anslyn, E. **(2016, April)**. *Differentiating Brazilian Cachaças using Peptidic Sensors*. Poster presented at The University of Texas at Austin, College of Natural Sciences: Undergraduate Research Forum, Austin, TX.
- LeBovidge, E.**, Makneja, K., Rago, D., Schumm, B., Telles, M., Winkler, M., Ghanem, E., Franco, D., & Anslyn, E. **(2016, March)**. *Differentiating Brazilian Cachaças using Peptidic Sensors*. Poster presented at the 251st American Chemical Society National Meeting, San Diego, CA.

Teaching

Graduate level

Co-Instructor (doctoral teaching practicum)

SPHSC 537: Fluency Disorders

Autumn 2020

Instructor of record: Ludo Max, Ph.D., CCC-SLP

Department of Speech & Hearing Sciences

University of Washington

Awards & Honors

Certificate in Science Communication, obtained following the completion of the NSF-funded Science Communication Online Programme (SCOPE) by the Center for Interdisciplinary Exploration and Research in Astrophysics (CIERA) at Northwestern University, June 2023

UW Graduate School's Top Scholar Award, Sept. 2018

UT College of Liberal Arts Dean's Distinguished Graduate: Honorable Mention, April 2018

UT College of Natural Sciences Scholar, April 2016, 2017, 2018

UT College of Liberal Arts Scholar, April 2016, 2017, 2018

Selected participant for the Summer Workshop in Brain and Cognitive Sciences hosted by the Department of Psychological and Brain Sciences at the University of Delaware (Newark, DE), funded by a National Science Foundation EPSCoR (Established Program to Stimulate Competitive Research) grant awarded to Dr. Jared Medina, June 2017

UT Visualizing Science Competition Finalist, Nov. 2016

Grants, Fellowships, & Scholarships

Co-recipient (with Amanda Ciani-Berlinger) of a Regional Outreach and Communication in STEM grant (sponsored by the Marine Biological Laboratory & Burroughs Wellcome Fund) entitled "Improving community understanding of speech and hearing sciences through a student-led community outreach event", Oct. 2022 (amount: \$1400)

(*Not funded*) Resubmitted an NIH F31 predoctoral fellowship application entitled "Investigating pre-speech auditory modulation in adults who stutter during natural, connected speech", April 2022

(*Not funded*) Submitted an NIH F31 predoctoral fellowship application entitled "Investigating pre-speech auditory modulation in adults who stutter during natural, connected speech", Aug. 2021

Recipient of a UW Department of Speech and Hearing Sciences travel grant (sponsored by the Lesley B. and Steven G. Olswang Endowed Graduate Student Conference Fund), March 2022 (amount: \$300)

Recipient of a UW Department of Speech and Hearing Sciences travel grant (sponsored by the Lesley B. and Steven G. Olswang Endowed Graduate Student Conference Fund), Oct. 2019 (amount: \$300)

Recipient of a travel fellowship (sponsored by Boston University's Sargent College of Health and Rehabilitation Sciences) to attend the 2019 Boston Speech Motor Control Symposium, April 2019 (amount: flight and lodging)

Recipient of an American Association for the Advancement of Science (AAAS) Section Z (Linguistics and Language Sciences) conference registration award, Jan. 2018 (amount: \$100)

Recipient of the UT Undergraduate Research Fellowship, Oct. 2017 (amount: \$1,000)

Recipient of the Emory and Ella Peterson Unrestricted Endowed Presidential Scholarship (nominated by the UT Department of Linguistics), May 2017 (amount: \$2,500)

Recipient of the UT Freshman Research Initiative (FRI) and Texas Institute for Discovery Education in Science (TIDES) Summer Research Fellowship, April 2015 (amount: \$1,250)

Recipient of the Dr. Larry R. Faulkner Challenge Grant Scholarship via The Texas Exes, Sept. 2014 to May 2018 (total amount: \$8,500)

Recipient of a merit scholarship via the UT College of Natural Sciences, Sept. 2014 to May 2018 (total amount: \$20,000)

Leadership

Communicating Science Seminar (UW Department of Speech & Hearing Sciences)

Co-founder & co-facilitator

Autumn 2021 - present

Doctoral Student Association (UW Department of Speech & Hearing Sciences)

Liaison

Autumn 2023 - Summer 2024

President

Autumn 2020 - Summer 2023

Secretary

Autumn 2019 - Summer 2020

UAW Local 4121: The Union of Academic Student Employees & Postdocs (University of Washington)

Steward, Department of Speech & Hearing Sciences

Winter 2021 - Winter 2024

American Chemical Society (UT-Austin Student Affiliates)

President

May 2016 - May 2017

Secretary and Social Chair

May 2015 - May 2016

Membership in Professional Organizations

Association for Science Communicators (formerly Science Talk), 2022-present

Society for the Neural Control of Movement, 2021

American Chemical Society, 2016-2017

University & Departmental Service

Co-founder and co-facilitator, **Communicating Science Seminar (UW)**, Autumn 2021 - present

See *Community Service & Outreach* for more

Member, **Admissions committee for MS in Medical Speech-Language Pathology**, Winter 2021, 2022, 2023
Department of Speech & Hearing Sciences, University of Washington

Member, **Diversity Seed Grant committee**, Summer 2020 - Winter 2022

Developed, launched, and analyzed department-wide surveys on diversity, equity, and inclusion (DEI) skills, knowledge, awareness, and implementation in the classroom, clinic, and personal life

Organized and hosted a workshop on cultural competency as part of a diversity seed grant entitled “Enhancing Cultural Competence in Speech and Hearing Sciences” funded by the UW Office of Minority Affairs and Diversity

Enhancing Cultural Competence workshop led by Kia Noelle Johnson, Ph.D., CCC-SLP, Associate Professor in the Department of Communication Sciences & Disorders at the University of Houston (Houston, TX)

Community Service & Outreach

Co-founder and co-facilitator, **Communicating Science Seminar (UW)**, Autumn 2021 - present

Co-facilitated a biweekly seminar with Speech & Hearing Sciences students of all levels (undergraduate through doctorate), focusing on developing public speaking and science communication skills, in addition to producing outreach materials to disseminate knowledge about speech-language pathology, audiology, communication disorders, and related fields

Organized a rehab-focused Career Exploration Day for high schoolers from historically marginalized communities, with hands-on demonstrations and activities led entirely by seminar participants

Member, **Anti-Discrimination Working Group (UAW Local 4121)**, Autumn 2020 - Spring 2020

Developed and co-facilitated two workshops for the “Third Thursdays” Anti-Discrimination Workshop Series: *How to Call In and Get Called In* and *White Privilege for White People*

Volunteer, **“Making Connections” Career Exploration Day**, UW Women’s Center, Jan. 2020

Hosted a hands-on laboratory visit with speech science demos for approx. 75 young adults from underrepresented groups in STEM fields

Mentorship

Graduate students

- Minna Subhani**, Speech & Hearing Sciences Jan. 2022 - May 2022
Trained to execute acoustic analyses for formant tracking
Supervised their assistance with data analysis
- Chrystal Chau**, Speech & Hearing Sciences Feb. 2019 - Feb. 2020
Supervised their participant recruitment efforts
Supervised their management of the laboratory email
Trained to execute acoustic analyses for formant tracking
Supervised their assistance with data analysis

Undergraduate/postbac students

- Mikayla Dy**, Bioengineering June 2023 - present
Trained to assist with EEG cap setup and data collection
Supervised their data collection and analysis assistance
- Justin Gillette**, Bioethics June 2023 - present
Trained to assist with EEG cap setup and data collection
Supervised their data collection and analysis assistance
- Zoie Breland**, Neuroscience April 2022 - present
Trained to assist with EEG cap setup and data collection
Trained to execute acoustic analyses for formant tracking
Supervised their data collection and analysis assistance
Mentored as part of the UW Neuroscience Undergraduate Reading Program (NURP)
Led weekly, one-on-one journal club meetings about sensorimotor neuroscience and learning
- Ian McRae**, Neuroscience Aug. 2022 - present
Trained to assist with EEG cap setup and data collection
Trained to execute acoustic analyses for formant tracking
Trained to segment long audiofiles based on voice onset
Supervised their data collection and analysis assistance
- Jiahe Zhang**, Speech & Hearing Sciences Summer 2022
Trained to execute acoustic analyses for formant tracking
Supervised their assistance with data analysis
- Hannah Goldfarb**, Neuroscience Jan. 2022 - present
Trained to assist with EEG cap setup and data collection
Trained to assist with manual rejection of EEG epochs based on EMG amplitude and voice onset
Trained to execute acoustic analyses for formant tracking
Supervised their data collection and analysis assistance
- Andrew Weakley**, Bioengineering Oct. 2021 - May 2023
Trained to assist with EEG cap setup and data collection
Trained to assist with manual rejection of EEG epochs based on EMG amplitude and voice onset
Trained to execute acoustic analyses for formant tracking
Trained to segment long audiofiles based on voice onset
Supervised their data collection and analysis assistance
- Ashley Wright**, Speech & Hearing Sciences Oct. 2019 - Feb. 2020
Trained to execute acoustic analyses for formant tracking
Supervised their assistance with data analysis
- Churan Li**, Speech & Hearing Sciences Jan. 2019 - Feb. 2020
Trained to execute acoustic analyses for formant tracking
Supervised their assistance with data analysis