

# G. LYNN KURTEFF, PHD, CF-SLP

*Curriculum vitae*

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## CONTACT

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## CURRENT POSITION

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Postdoctoral researcher and clinical fellow, Edward and Pearl Fein Memory and Aging Center, department of Neurology, UC San Francisco

## RESEARCH INTERESTS

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- Neurobiology of speech perception & production
- Speech motor control and auditory feedback processing
- Reorganization of language after stroke & surgical intervention
- Brain-to-text decoding, brain-computer interfaces

## CLINICAL INTERESTS

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- Neurogenic communication disorders: aphasia & apraxia of speech
- Head & neck cancer, dysphagia
- Gender-affirming voice therapy

## EDUCATION

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### PhD in Speech, Language & Hearing Sciences

*University of Texas at Austin*

2018 - 2024

*Austin, TX*

- Mentor: Liberty Hamilton
- Other committee members: Jun Wang, Rosemary Lester-Smith, Maya Henry, Stephanie Riès
- Dissertation: *Cortical Suppression of Auditory Feedback during Speech Production and Perception*

### M.S. in Speech, Language & Hearing Sciences

*University of Texas at Austin*

2018 - 2020

*Austin, TX*

- Mentors: Liberty Hamilton, Rosemary Lester-Smith
- Thesis: *Modulation of Neural Responses to Naturalistic Speech Production and Perception*

### B.A. in Linguistics and Psychology

*University of California, Berkeley*

2012 - 2015

*Berkeley, CA*

- Mentors: Keith Johnson, Lev Michael, Joseph Campos

## HONORS AND AWARDS

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- Academy of Aphasia, Mentorship Award, Fall 2025, \$1000
- UT Austin CARE Research Day, Best Poster award, Spring 2024, \$50
- Texas Speech-Language-Hearing Foundation, International travel grant, Spring 2024, \$1,700
- William Orr Dingwall Foundation Dissertation Fellowship in the Cognitive, Clinical, and Neural Foundations of Language recipient, Fall 2023 - Spring 2024, \$40,000
- UT Austin Graduate School Fellowship recipient, Summer 2023 (declined), \$10,672
- Texas Speech-Language-Hearing Foundation, President's Research Endowment Fund recipient, Spring 2023, \$1,375
- Cold Spring Harbor Laboratory Regeneron Scholarship recipient, Genetics & Neurobiology of Language course, Summer 2022, \$1,750
- TSHA 2022 Audiology Research Symposium award winner, Winter 2022, \$250
- TSHA 2021 Audiology Research Symposium award winner, Spring 2021, \$250
- UT Austin Moody Doctoral Fellowship recipient, Fall 2019 - Spring 2022, \$5,000
- UT Austin Provost Fellowship recipient, Fall 2018 & Summer 2019, \$5,000
- UC Berkeley Dean's Honors, Spring 2015 & Fall 2015

## PEER-REVIEWED JOURNAL ARTICLES & PREPRINTS

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1. **Kurteff, G.L.**, Walker, G.M., Fridriksson, J., & Hickok, G. (2025). *Mapping of critical prosodic and phonetic networks in post-stroke apraxia of speech*. bioRxiv preprint. [\[doi\]](#) [\[pdf\]](#)
2. Zhao, L., Silva, A.B., **Kurteff, G.L.**, & Chang, E.F. (2025). *Inhibitory control of speech production in the human premotor frontal cortex*. Nature Human Behavior. [\[doi\]](#) [\[pdf\]](#)
3. **Kurteff, G.L.**, Field, A.M., Asghar, S., Tyler-Kabara, E.C., Clarke, D., Weiner, H.L., Anderson, A.E., Watrous, A., Buchanan, R.J., Modur, P.N., & Hamilton, L.S. (2024). *Spatiotemporal mapping of auditory onsets during speech production*. Journal of Neuroscience. [\[doi\]](#) [\[pdf\]](#)
4. **Kurteff, G.L.**, Lester-Smith, R.A., Martinez, A., Currens, N., Holder, J., Villarreal, C., Mercado, V.R., Truong, C., Huber, C., Pokharel, P., & Hamilton, L.S. (2023). *Speaker-induced suppression in EEG during a naturalistic reading and listening task*. Journal of Cognitive Neuroscience. [\[doi\]](#) [\[pdf\]](#)
5. Levy, D.F., Silva, A.B., Scott, T., Liu, J., Harper, S., Zhao, L., Hullett, P., **Kurteff, G.**, Andrews, J., Wilson, S.M., Leonard, M., & Chang, E.F. (2023). *Apraxia of speech with phonological alexia and agraphia following resection of the left middle precentral gyrus*. Journal of Neurosurgery: Case Lessons. [\[doi\]](#) [\[pdf\]](#)
6. Ammanuel, S., Almeida, N.C., **Kurteff, G.**, Kakaizada, S., Molinaro, A., Berger, M.S., Chang, E.F., & Hervey-Jumper, S.L. (2021). *Natural language assessment correlates with health-related quality of life in adult glioma patients*. Journal of Neuro-Oncology. [\[doi\]](#) [\[pdf\]](#)
7. Chang, E.F., **Kurteff, G.**, Andrews, J., Briggs, R.G., Conner, A.K., Battiste, J.D., & Sughrue, M.E. (2020). *Pure apraxia of speech after focal surgical resection of area 55b in dorsal premotor cortex*. Neurosurgery. [\[doi\]](#) [\[pdf\]](#)
8. De Witte, E., Piai, V., **Kurteff, G.**, Cai, R., Mariën, P., Dronkers, N., Chang, E.F., & Berger, M.S. (2018). *A valid alternative for in-person language assessments in brain tumor patients: Feasibility and validity measures of the new TeleLanguage test*. Neuro-Oncology Practice. [\[doi\]](#) [\[pdf\]](#)

9. Chang, E.F., **Kurteff, G.**, & Wilson, S.M. (2018). *Selective interference with syntactic encoding during sentence production by direct electrocortical stimulation of the inferior frontal gyrus*. Journal of Cognitive Neuroscience. [doi] [pdf]

## JOURNAL ARTICLES IN PREPARATION

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1. Walker, G.M., **Kurteff, G.L.**, Hussain, A., Fridriksson, J., & Hickok, G. (in prep). *Critical-network lesion-symptom mapping*.
2. Walker, G.M., **Kurteff, G.L.**, Fridriksson, J., & Hickok, G. (in prep). *Distinct sources of nonword errors in post stroke aphasia*.
3. **Kurteff, G.L.** & Hamilton, L.S. (in prep). *The human insular auditory field*.
4. **Kurteff, G.L.**, Field, A.M., Asghar, S., Tyler-Kabara, E.C., Clarke, D., Weiner, H.L., Anderson, A.E., Watrous, A., Buchanan, R.J., Modur, P.N., & Hamilton, L.S. (in prep). *onsetProd: an intracranial sEEG dataset of naturalistic sentence production and perception*.

## CONFERENCE PRESENTATIONS

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1. **Kurteff, G.L.**, Walker, G.M., Fridriksson, J., & Hickok, G. (2025). *Mapping of critical prosodic and phonetic networks in post-stroke apraxia of speech*. Poster session presented at the Annual Meeting of the Academy of Aphasia, San Diego, CA.
2. **Kurteff, G.L.**, Tyler-Kabara, E.C., Clarke, D., Weiner, H.L., Anderson, A.E., Watrous, A., Asghar, S., Field, A., & Hamilton, L.S. (2024). *Intracranial EEG Processing of Auditory Feedback in Perisylvian Cortex*. Poster session presented at the Annual Meeting of the Cognitive Neuroscience Society, Toronto, ON, Canada.
3. Hamilton, L.S., Asghar, S., Desai, M., **Kurteff, G.L.**, Field, A., Nussbaum, N.L., Clarke, D., Tyler-Kabara, E.C., Anderson, A., & Weiner, H.L. (2023). *Utilizing Clinical Intracranial Epilepsy Monitoring Infrastructure for Basic Science Research of Speech and Language Development*. Poster session presented at the Annual Meeting of the Child Neurology Society, Vancouver, BC, Canada.
4. **Kurteff, G.**, & Hamilton, L.S. (2022). *Stereo EEG mapping of sensorimotor responses to self-generated speech*. Poster session presented at the Annual Meeting of the Texas Speech-Language Hearing Association, Fort Worth, TX; Association for Research in Otolaryngology, virtual meeting due to COVID-19.
5. Cheng, C., Young, N., Teplansky, K., **Kurteff, G.**, Salman, R., Mau, T., & Wang, J. (2022). *Fricative production in laryngeal, electrolaryngeal, and tracheoesophageal speech*. Poster session presented at the biannual meeting of the Conference on Motor Speech, Charleston, SC.
6. **Kurteff, G.**, & Hamilton, L.S. (2021). *Encoding of phonological features in intracranial recordings of human speech cortex during a dual perception-production task*. Poster session presented at the Annual Meeting of Advances and Perspectives in Auditory Neuroscience, virtual meeting due to COVID-19.
7. **Kurteff, G.**, Martinez, A., Currens, N., Holder, J., Mercado, V., Truong, C., Huber, C., Pokharel, P., & Hamilton, L.S. (2020a; 2021b). *Methods for Investigating Continuous Speech Production and Perception with EEG*. Poster session presented at a. the Annual Meeting of the Society for Neurobiology of Language; b. Texas Speech-Language Hearing Association, virtual meetings due to COVID-19.
8. **Kurteff, G.**, Fox, N.P., Dronkers, N.F., Desai, M., Shafi, A., & Chang, E.F. (2019). *Behavioral and neuroanatomical description of stimulation-induced speech arrest*. Poster session presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, USA.
9. Chang, E.F., **Kurteff, G.**, & Wilson, S.M. (2017). *Selective interference with syntactic encoding during sentence production by direct electrocortical stimulation of the inferior frontal gyrus*.

- Poster session presented at the Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD, USA.
10. De Witte, E., Piai, V., **Kurteff, G.**, Cai, R., Berger, M.S., Chang, E.F., & Dronkers, N. (2016). *Usability and validity of a phone battery to assess language functions in brain tumor patients undergoing awake surgery*. Poster session presented at the Annual Meeting of the Academy of Aphasia, Llandudno, Wales; UK and Society of Neurooncology, Scottsdale, AZ, USA.

## THESES AND DISSERTATIONS

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1. **Kurteff, G.L.** (2024). *Cortical Suppression of Auditory Feedback during Speech Production and Perception*. PhD dissertation. [\[doi\]](#) [\[pdf\]](#)
2. **Kurteff, G.** (2020). *Modulation of neural responses to naturalistic speech production and perception*. Masters thesis. [\[doi\]](#) [\[pdf\]](#)

## RESEARCH EXPERIENCE

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**UCSF Department of Neurology** 2025 - Present  
*ALBA Language Neurobiology Lab - Postdoctoral Scholar* San Francisco, CA

- Principal Investigator: Maria Luisa Gorno-Tempini, MD, PhD
- Postdoctoral fellowship focused on investigating patterns of dorsal stream impairment in people with primary progressive aphasia and primary progressive apraxia of speech

**UC Irvine Department of Cognitive Sciences** 2024 - 2025  
*Auditory & Language Neuroscience Lab - Postdoctoral Scholar* Irvine, CA

- Principal Investigator: Greg Hickok
- Postdoctoral fellowship funded through the Center for the Study of Aphasia Recovery (C-STAR) project, focused on investigating patterns of dorsal stream impairment in people with apraxia of speech
- Established local sEEG data collection at UCI Douglas Hospital and an accompanying analysis pipeline

**UT Austin Department of Speech, Language, and Hearing Sciences** 2024  
*Hamilton Lab - Postdoctoral Scholar* Austin, TX

- Principal Investigator: Liberty Hamilton
- Brief postdoc with my PhD advisor focused on the role of posterior insula in auditory processing

**UT Austin Department of Speech, Language, and Hearing Sciences** 2018 - 2024  
*Hamilton Lab - Graduate Research Assistant* Austin, TX

- Principal Investigator: Liberty Hamilton; rotation with Jun Wang Fall 2021
- Researching processing of auditory feedback during speech production with invasive and noninvasive electrophysiology (ECOG, sEEG, EEG, EMG)
- Rotation with Jun Wang focused on decoding of linguistic features from EEG

**UCSF Department of Neurological Surgery** 2016 - 2018  
*Chang Lab - Research Specialist* San Francisco, CA

- Principal Investigator: Edward F. Chang
- Performed research on recovery from aphasia in postoperative neurosurgical patients and intraoperative cortical stimulation mapping
- Maintained active collaborations on multiple projects after leaving lab

**UC Berkeley Department of Linguistics**  
*Undergraduate Researcher*

2015  
*Berkeley, CA*

- Principal Investigators: Keith Johnson & Sarah Bakst

**UC Berkeley Department of Linguistics**  
*Undergraduate Researcher*

2015  
*Berkeley, CA*

- Principal Investigator: Dr. Lev Michael

**UC Berkeley Department of Psychology**  
*Research Assistant & Morning Supervisor*

2014 - 2015  
*Berkeley, CA*

- Principal Investigator: Dr. Allison Harvey

## TEACHING EXPERIENCE

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**UT Austin**  
*Guest Lecturer*

2019 - 2023  
*Austin, TX*

- Departments: Speech, Language and Hearing Sciences, Linguistics, Natural Sciences
- Lectures: “Introduction to EEG,” “Broca and Wernicke are Dead,” “Cortical Stimulation Mapping”

**UT Austin**  
*Assistant Instructor*

2021  
*Austin, TX*

- Served as the primary instructor for undergraduate course “Language and the Brain”
- Designed all course materials and led lectures for class of ~70 students and supervised two TAs

**UT Austin**  
*Teaching Assistant*

2019 - 2020  
*Austin, TX*

- TA for “Language and the Brain,” taught by Dr. Liberty Hamilton in Fall 2019 and Fall 2020 semesters

**UC Berkeley “DeCal” Program**  
*Student Instructor*

2013 - 2015  
*Berkeley, CA*

- Served as primary instructor alongside three other undergraduates for “Intro to 3D Modeling”
- Co-created all course materials

## MENTORSHIP

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- Janelle Franco, undergraduate, UC Irvine (2025 - )
- Akbar Hussain, graduate, UC Irvine (2024 - )
- Giselle Pedraza, undergraduate, UT Austin (2024)
- Tasha Anslyn, undergraduate, UT Austin (2020 - 2021)
- Valerie Rae Mercado, undergraduate, UT Austin (2019 - 2021)
- Christopher Truong, undergraduate, UT Austin (2019 - 2021)
- Claire Huber, undergraduate, UT Austin (2019 - 2021)
- Nicole Currens, undergraduate, UT Austin (2019 - 2021)
- Amanda Martinez, undergraduate, UT Austin (2019 - 2021)
- Jade Holder, undergraduate, UT Austin (2019 - 2020)
- Cassandra Villarreal, undergraduate, UT Austin (2019 - 2020)
- Paranjaya Pokharel, undergraduate, UT Austin (2019)

## CLINICAL EXPERIENCE

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- UCSF Memory and Aging Center** 2025 - Present  
*Speech-Language Pathology Clinical Fellowship* *San Francisco, CA*
- Supervisor: Willa Keegan-Rodewald, MA, CCC-SLP
  - Primary progressive aphasia evaluation and treatment in a clinical research setting
- Ascension Seton** 2021  
*Speech-Language Pathology Externship* *Austin, TX*
- Supervisor: Elizabeth Otterbein, MS, CCC-SLP
  - Treated adult clients in a mixture of inpatient and outpatient hospital settings
  - Inpatient treatment focused on bedside swallow examinations, modified barium swallow studies, and dysphagia treatment
  - Outpatient treatment focused on management of tracheoesophageal voice prostheses in people with total laryngectomees, voice and lymphedema therapy for survivors of head and neck cancer, modified barium swallow studies, cognitive-linguistic therapy, and gender-affirming voice therapy
- All Care Therapies** 2020  
*Speech-Language Pathology Externship* *Georgetown, TX*
- Supervisors: Holly Mouton, MS, CCC-SLP; Lynzy Melzer, MA, CCC-SLP
  - Treated pediatric and adult clients in a private practice setting
  - Treatment focused on early language, articulation and phonological disorders, and autism spectrum disorders
- Round Rock ISD** 2020  
*Speech-Language Pathology Externship* *Round Rock, TX*
- Supervisors: Vanessa Baca, MA, CCC-SLP; Jeanette Fields, MA, CCC-SLP
  - Delivered speech-language pathology services to special education students at Stony Point High School with autism spectrum disorders, cognitive deficits, and developmental disorders
  - Services focused on social communication, receptive and expressive language through AAC, fluency, articulation, and joint attention
- UT Austin** 2019  
*Graduate Student Clinician* *Austin, TX*
- Rotation with Nickole Hines-Staples, MA, CCC-SLP, BIES: Evaluation and treatment of children with expressive language, phonological, and articulation disorders at the UT Speech and Hearing Clinic (UTSHC)
  - Rotation with Jessica H. Franco, PhD, CCC-SLP, BCBA-D: Treated adults with Autism Spectrum Disorder and Down syndrome in a group setting as part of UTSHC's "Convo Club;" evaluated children with phonological disorders
  - Rotation with Kristy Armer, M.S., CCC-SLP: Evaluation and treatment of varying adult populations, including Autism Spectrum Disorder and aphasia
- UCSF Department of Neurological Surgery** 2016 - 2018  
*Assistant Specialist* *San Francisco, CA*
- Performed aphasia evaluations using WAB, BNT, and QAB (Quick Aphasia Battery) in presurgical and postsurgical patients
  - Worked with team of neurologists and neurosurgeons to intraoperatively map language in the brain using nonstandardized language assessments and electrocortical stimulation
  - Collected data to help develop new aphasia assessments (QAB, TeleLanguage)

## ACADEMIC AND COMMUNITY SERVICE

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- Union of Academic Workers, Local 4811, organizer, 2024 - present
- Trans Voice Initiative (TVI), member, 2024 - present
- Out in STEM (oSTEM), UT Austin chapter, member, 2022 - 2024
- Neuroscience Undergraduate Reading Program (NURP), UT Austin, mentor, 2020
- brainWaves Podcast, co-host, 2019 - 2020
- Society for Linguistics Undergraduates (SLUGS), UC Berkeley, member/president, 2014 - 2015
- 3D Modeling Club, UC Berkeley, founding member, 2013 - 2015

## AD HOC REVIEW

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- *Brain, Neurobiology of Language, Journal of Speech, Language, and Hearing Research, European Journal of Neuroscience, American Journal of Speech-Language Pathology*

## RESEARCH SKILLS

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- Data collection: EEG, ECoG/sEEG, MRI/fMRI, EMG, cortical stimulation, clinical speech and language assessment
- Analysis techniques: Event-related potentials, neural time series extraction, encoding/decoding models, temporal receptive field modeling, mixed-effects modeling, lesion-symptom mapping, stereotactic electrode localization, corpus analysis, nonnegative matrix factorization, phonetic transcription and forced alignment
- Programming languages: Python (numpy, scipy, sklearn, pandas, mne, torch), MATLAB, R, Swift (Apple fork of Objective-C)
- Miscellaneous software: GNU/Linux, Praat, FreeSurfer, MRICron, FLEX, XCode, ffmpeg/Audacity, Adobe Creative Cloud (Illustrator, Photoshop, Premiere), L<sup>A</sup>T<sub>E</sub>X

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