

G. LYNN KURTEFF, PHD, MS-SLP

List of Publications

PEER-REVIEWED JOURNAL ARTICLES

1. 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. [\[doi\]](#) [\[pdf\]](#)
Keywords: ECoG, cortical stimulation mapping, speech production, speech arrest
2. **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. [\[doi\]](#) [\[pdf\]](#)
Keywords: sEEG, ECoG, speech production, speech perception, auditory feedback, insular auditory field
3. **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. [\[doi\]](#) [\[pdf\]](#)
Keywords: EEG, speech production, speech perception, auditory feedback
4. 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. [\[doi\]](#) [\[pdf\]](#)
Keywords: case study, lesion-symptom mapping, apraxia of speech, speech and language assessment, neurosurgery
5. 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. [\[doi\]](#) [\[pdf\]](#)
Keywords: speech sample analysis, neurosurgery
6. 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. [\[doi\]](#) [\[pdf\]](#)
Keywords: case study, lesion-symptom mapping, apraxia of speech, speech and language assessment, neurosurgery
7. 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. [\[doi\]](#) [\[pdf\]](#)
Keywords: speech and language assessment, aphasia, neurosurgery
8. 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. [\[doi\]](#) [\[pdf\]](#)
Keywords: cortical stimulation mapping, speech production, expressive syntax

JOURNAL ARTICLES SUBMITTED/IN PREPARATION/IN REVISION

1. **Kurteff, G.L.**, Walker, G.M., Fridriksson, J., & Hickok, G. (in prep). *Mapping of critical prosodic and phonetic networks in post-stroke apraxia of speech*.
Keywords: lesion-symptom mapping, apraxia of speech

2. Walker, G.M., **Kurteff, G.L.**, Hussain, A., Fridriksson, J., & Hickok, G. (in prep). *Critical-network lesion-symptom mapping*.
Keywords: lesion-symptom mapping
3. Walker, G.M., **Kurteff, G.L.**, Fridriksson, J., & Hickok, G. (in prep). *Distinct sources of nonword errors in post stroke aphasia*.
Keywords: psychometric modeling, aphasia, apraxia of speech, speech and language assessment, lesion-symptom mapping
4. **Kurteff, G.L.** & Hamilton, L.S. (in prep). *The human insular auditory field*.
Keywords: literature review, insular auditory field
5. **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*.
Keywords: sEEG, ECoG, speech production, speech perception, dataset

CONFERENCE PRESENTATIONS

1. **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.
Keywords: sEEG, ECoG, speech production, speech perception, auditory feedback, insular auditory field
2. 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.
Keywords: sEEG, epilepsy, methods
3. **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.
Keywords: sEEG, speech production, speech perception, auditory feedback
4. 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.
Keywords: articulatory phonetics, voice, alaryngeal speech
5. **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.
Keywords: sEEG, speech production, speech perception
6. **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.
Keywords: EEG, EMG, speech production, speech perception, methods
7. **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.
Keywords: cortical stimulation mapping, speech production, speech arrest

8. 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.

Keywords: cortical stimulation mapping, speech production, expressive syntax

9. 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.

Keywords: speech and language assessment, cortical stimulation mapping, aphasia, neurosurgery

THESES AND DISSERTATIONS

1. **Kurteff, G.L.** (2024). *Cortical Suppression of Auditory Feedback during Speech Production and Perception*. PhD dissertation. [\[doi\]](#) [\[pdf\]](#)

Keywords: sEEG, ECoG, EEG, EMG, speech production, speech perception, auditory feedback, insular auditory field

2. **Kurteff, G.** (2020). *Modulation of neural responses to naturalistic speech production and perception*. Masters thesis. [\[doi\]](#) [\[pdf\]](#)

Keywords: EEG, EMG, speech production, speech perception, auditory feedback

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