

Peter A. Krause, Ph.D.

He/Him/His

peter.krause066@csuci.edu

Department of Psychology, California State University, Channel Islands

One University Drive,

Camarillo, CA, 93012

<https://peterakrause.com>

Academic Positions

2022-Present	Assistant Professor of Psychology California State University, Channel Islands
2020-2022	Lecturer in Linguistics University of California, Santa Barbara
2019-2022	Lecturer in Psychology California State University, Channel Islands

Education

2019	Ph.D. in Psychology University of California, Santa Cruz Advisor: Alan H. Kawamoto Dissertation: "Does articulation during speeded naming reveal continuous negotiation of parallel constraints?"
2016	M.S. in Psychology University of California, Santa Cruz
2014	B.A. in Psychology California State University, Channel Islands

Honors and Awards

2019	Graduate Travel Award Psychonomic Society Annual Meeting
2015-2018	Perlino Award University of California, Santa Cruz Summer funding for research benefitting the hearing impaired community (Three-time recipient)

- 2017** Kappa Alpha Theta Certificate of Appreciation
University of California, Santa Cruz
Awarded to educators who inspired members of the Theta XI chapter
- 2015** Regent's Fellowship
University of California, Santa Cruz

Peer-Reviewed Publications

- Krause, P. A., Pili, R. J., & Hunt, E. (2024).** A process for measuring lip kinematics using participants' webcams during linguistic experiments conducted online. *Laboratory Phonology: Journal for the Association of Laboratory Phonology*, 15(1): 1-35.
- Broś, K., & **Krause, P. A. (2024).** Stop lenition in Canary Islands Spanish – A motion capture study. *Laboratory Phonology: Journal for the Association of Laboratory Phonology*, 15(1): 1-50.
- Virues-Ortega, J., Pérez-Bustamante Pereira, A., Martin, N., Moeyaert, M., **Krause, P. A.**, Tarifa-Rodriguez, A., Trujillo, C., & Sivaraman, M. (2023). Reducing face touching through haptic feedback: A treatment evaluation against fomite-mediated self-infection. *Journal of Applied Behavior Analysis*. Early-view publication.
- Krause, P. A., & Kawamoto, A. H. (2021).** Predicting one's turn with both body and mind: Anticipatory speech postures in dyadic conversation. *Frontiers in Psychology*, 12: 68428.
- Liu, Q., Holbrook, B. B., Kawamoto, A. H. & **Krause, P. A. (2021).** Verbal reaction times based on tracking lip movement. *Journal of the Mental Lexicon*, 16(2).
- Krause, P. A., Kay, C. A., & Kawamoto, A. H. (2020).** Automatic motion tracking of lips using digital video and OpenFace2.0. *Laboratory Phonology: Journal for the Association of Laboratory Phonology*, 11(1): 9, 1-16.
- Krause, P. A. & Kawamoto, A. H. (2020).** On the timing and coordination of articulatory movements: Historical perspectives and current theoretical challenges. *Language and Linguistics Compass*, e12373.
- Krause, P. A. & Kawamoto, A. H. (2020).** Nuclear vowel priming and anticipatory oral postures: Evidence for parallel phonological planning? *Language, Cognition, & Neuroscience*, 35(1), 106-123.
- Krause, P. A., & Kawamoto, A. H. (2019).** Anticipatory mechanisms influence articulation in the form preparation task. *Journal of Experimental Psychology: Human Perception and Performance*, 45(3), 319-335.

Talks Presented or Coauthored at Professional Meetings

Broś, K., & **Krause, P. A.** (presented by Broś) (2023, May). *Motion capture evidence for containment in Spanish stop lenition*. Thirtieth Manchester Phonology Meeting. Manchester, U.K.

Krause, P. A. (2022, May). *Understanding anticipatory speech postures: Does coarticulation extend outside the acoustic utterance?* 182nd Meeting of the Acoustical Society of America. Denver, CO.

Posters Presented or Coauthored at Professional Meetings

Krause, P. A., Barkman, V., Luna, A., & Luna, J. (2023, November). *The role of facial visibility in perceiver's judgments of speech onset times*. 64th Annual Meeting of the Psychonomic Society. San Francisco, CA.

Broś, K., & **Krause, P. A.** (2023, January). *Stop lenition in Canary Islands Spanish – A motion capture study*. Old World Phonology 20. Tours, France.

Krause, P. A., & Kawamoto, A. H. (2019, November). *Nuclear vowel priming and anticipatory oral postures: Evidence for parallel phonological planning?* 60th Annual Meeting of the Psychonomic Society. Montreal, Canada.

Liu, Q., Holbrook, B. B., Kawamoto, A. H., & **Krause, P. A.** (2018, July). *Articulatory and acoustic latency indices of articulatory level effects in the naming of monosyllabic stimuli*. International Workshop in Language Production 2018. Nijmegen, Netherlands.

Krause, P. A., & Kawamoto, A. H. (2016, July). *The dynamics of early response preparation during the form preparation task*. International Workshop in Language Production 2016. La Jolla, CA.

Krause, P., & Kawamoto, A. H. (2015, November). *Evidence for pre-trial articulation during form preparation*. 56th Annual Meeting of the Psychonomic Society. Chicago, IL.

Invited Talks and Colloquia

Measuring lip movements in online speech experiments.

California State University, Channel Islands. Computer Science Seminar Series. February 6, 2023.

All in the timing: How speech planning flexibly coordinates with speech action.

Revised: May 2024

Mississippi State University (virtual meeting). Cognitive Area Colloquium. February 4, 2022.

Predicting one's turn with both body and mind: Anticipatory speech postures during dyadic conversation.

University of Southern California (virtual meeting). Speech Production and Articulation kKnowledge (SPAN) Group. August 4, 2021.

Teaching Experience

Assistant Professor, California State University, Channel Islands

Learning, Cognition, & Perception – Spring 2024 (2 Sections), Spring 2023 (2 sections), Fall 2023 (2 sections)

Research and Statistical Methods for Psychology I – Fall 2023 (Extended U.)

Behavioral Neuroscience – Fall 2022

History & Systems of Psychology – Summer 2024, Fall 2022

Lecturer, California State University, Channel Islands

Behavioral Neuroscience – Summer 2022

Learning, Cognition, & Perception – Spring 2022, Spring 2021, Fall 2019

Research and Statistical Methods for Psychology I & II – Spring 2022 (Part II), Fall 2021 (1 section Part I, 1 section Part II), Spring 2021 (1 Section Part I, 1 Section Part II), Fall 2020 (1 Section Part I, 1 section Part II), Spring 2020 (Part II), Fall 2019 (Part II)

History & Systems of Psychology – Spring 2022, Fall 2021

Lecturer, University of California, Santa Barbara

Auditory Phonetics – Spring 2022

Advanced Phonetics (Graduate-level seminar) – Spring 2020

Statistics for Linguists – Spring 2020

Graduate Student Instructor, University of California, Santa Cruz

Cognition: Fundamental Theories – Summer 2019, Summer 2017

Psychology of Reading – Winter 2019, Fall 2018

Graduate Teaching Assistant, University of California, Santa Cruz

Research Methods in Psychology – Spring 2019, Spring 2015, Fall 2015

Cognitive Neuroscience – Spring 2018

Perception – Winter 2018

Human Evolution – Fall 2017

Psychological Statistics -Spring 2017

Psychology of Reading – Winter 2017, Winter 2016, Fall 2014

Neural Modeling – Fall 2016, Spring 2016

Service

2019-present	Ad-hoc Reviewer for: <i>Cognition</i> <i>Journal of Memory & Language</i> <i>Frontiers in Psychology</i> <i>Language, Cognition, & Neuroscience</i> <i>Memory & Cognition</i> <i>Psychonomic Bulletin & Review</i>
2024	Faculty representative, Psychology lunch mixer for new first-year and transfer students Faculty chaperone for CSUCI's delegation to CSU Student Research Competition
2023-present	Member, CSUCI Committee on Equity and Anti-Racism (CEAR) To become committee chair in AY 2024-2025
2022-present	Professional Contact, Psychology Research & Experience Program (PREP) SONA Systems Admin for CSUCI Psychology Department
2022-2023	Member, CSUCI Non-Tenure-Track Faculty Equity Task Force Trainee in NIH-grant-funded program for enriching diversity in STEM Two courses: Inclusive Mentorship (Fall 2022) Getting the Most out of CURES (Spring 2023) Proposed curricular adjustments to in-development Masters-level course in Cognitive Psychology (CSUCI)
2023	Faculty Chaperone, Dark-sky astronomy trip to CSUCI's research station on Santa Rosa Island Psychology table worker, Ekho Fun Fest (CSUCI new student orientation) Panelist on issues of faculty life for CSUCI New T/TT Faculty Orientation Participant in online workshop about equitable peer-review practices for social science publishing, presented by Reviewer Zero Poster & Talk Judge, CSUCI Student Research Conference

Psychology table worker, Admitted Dolphin Day (Admitted students' day for CSUCI)

CSUCI Representative to CSU-wide STEM-NET Conference
(Coauthor of poster: *Embracing diversity in the dolphin pod: Increasing presentation in CSUCI STEM majors.*)

2022 Peer evaluation of CSUCI Psychology Lecturer
Trainee, NCFDD Faculty Success Program

2020 Generated Qualtrics tutorial for CSUCI faculty

2016-2019 Teaching assistant mentor for first-time teaching assistants

2018-2019 Panelist, UCSC informational panel on careers in Cognitive Science

2019 Lab tour guide for Women in Science and Engineering (WISE) event

Memberships and Affiliations

2019-present Acoustical Society of America

2015-present Psychonomic Society

2016-2018 International Workshop in Language Production

Technical Skills

- R Statistical Package (including lme4)
- Statistical Package for the Social Sciences (SPSS)
- Python programming (including Matplotlib and PsychoPy)
- JavaScript programming (including jsPsych)
- Face tracking using OpenFace 2.0
- Face tracking using MediaPipe FaceMesh
- Motion tracking using Adobe AfterEffects
- PRAAT phonetic software package
- Qualtrics
- Course Design/Management in Canvas, Moodle, and Blackboard

Research Interests

My research looks at the boundary where intention becomes action, in the domain of speech. How, when, and under what conditions are speech plans realized as articulatory and acoustic events? I carry out this work through a novel coupling of psycholinguistic tasks (word reading and, more recently, conversation analysis) with articulatory measurement. My work suggests that even fragmentary plans of what to say next can measurably influence the set of the lips, long before the high-speed movements traditionally associated with articulation kick in. These “early” embodied anticipations arise not just in controlled laboratory tasks but in unstructured natural conversation. One possible explanation is that speakers *control* (i.e., gate, or throttle) the flow from intention to action in real time. Such a mechanism might benefit inter-speaker coordination during conversation. This possibility is theoretically important, since models of speech production have historically concerned themselves only with how actions are coordinated *within* utterances, thus ignoring the communicative *context* in which speech usually occurs.

A secondary interest (intimately entangled with the first) is in accessible and affordable measurement of speech-relevant lip movement. My work in this area has emphasized cost-free face-tracking software. Recently, this approach has yielded a means of using web-based tools to measure lip movements through participants’ webcams, allowing articulation to be captured in the context of remote, in-browser experiments.