

# Kyle Mahowald: CV

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*Assistant professor of linguistics at UT Austin, computational psycholinguist with interests in computation, cognition, quantitative methods, and NLP.*

CONTACT INFORMATION      e-mail: [kmahowald@gmail.com](mailto:kmahowald@gmail.com)  
web: [mahowak.github.io](https://mahowak.github.io)

RESEARCH INTERESTS      Computational psycholinguistics, Natural Language Processing (NLP), quantitative methods, cognitive science, statistical methods in the sciences, language and communication, language neuro-imaging, historical English, literature, meta-analysis

ACADEMIC WORK      **The University of Texas at Austin**, Austin, TX USA      2021-  
Assistant Professor, Linguistics  
**University of California, Santa Barbara**, Santa Barbara, CA USA      2020-2021  
Assistant Professor, Linguistics  
• Steering Committee Member & Affiliate Faculty, Cognitive Science Emphasis  
• Affiliate Faculty, Center for Responsible Machine Learning  
• Affiliate Faculty, Center for Quantitative Methods in the Social Sciences  
**Stanford University**, Palo Alto, CA USA      2019-2020  
Postdoctoral Researcher, Computer Science  
• Advisors: Dan McFarland (Graduate School of Education), [Dan Jurafsky](#) (CS/Linguistics)

EDUCATION      **Massachusetts Institute of Technology**, Cambridge, MA USA      2011-16  
Ph.D., Brain and Cognitive Sciences  
• Advisor: [Edward Gibson](#)  
• Committee: Edward Gibson, Nancy Kanwisher, Joshua Tenenbaum  
• Thesis: *Cognitive and Communicative Pressures in Natural Language*  
**University of Oxford**, Oxford, England UK      2009-11  
M.Phil with Distinction, [General Linguistics and Comparative Philology](#)  
Marshall Scholar  
• Advisors: [Mary Dalrymple](#), Aditi Lahiri  
• Areas of Study (all with Distinction): history and structure of English, morphophonology, computational linguistics, general linguistics  
• Thesis: *An LFG Approach to Old English Constituent Order* (with Distinction)  
**Harvard University**, Cambridge, MA USA      2005-09  
A.B. Summa Cum Laude, English  
• Advisors: Daniel Donoghue, Marjorie Garber  
• Thesis: *A Fairy's Tale: Queen Mab's Journey from Shakespeare to Modernity*

INDUSTRY EXPERIENCE      **Algorithm Developer, Hudson River Trading**, New York, NY USA      2016-2019  
• Performed research in natural language processing and quantitative finance, wrote production code for low latency trading algorithms in C++ and Python

MAJOR EXTERNAL FUNDING      • 2021-2023. NSF Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII). Using Linguistic Variation to Understand Deep Neural Models of Language. \$175,000.

FELLOWSHIPS GRANTS AND AWARDS	• University of Texas at Austin UGS Supplementa Course Fund (\$1,000)	2022
	• University of Texas at Austin Academic Enrichment Fund (\$4,000)	2021
	• UCSB Senate Faculty Grant (\$15,000, declined)	2021
	• UCSB Interdisciplinary Humanities Collaborations in the Virtual Classroom Grant (\$1,100)	2020
	• NSF Doctoral Dissertation Improvement Grant (\$12,000)	2015-16
	• Graduate Student Council Travel Grant	2014
	• Angus MacDonald Award for Excellence in Undergraduate Teaching	2014
	• AAAS/Science Program for Excellence in Science	2014
	• CUNY 2013 Travel Award	2013
	• National Defense Science and Engineering Graduate Fellowship	2012-15
	• Henry E. Singleton Fund Fellowship	2011-12
	• Sigma Xi Scientific Research Society	2012
	• Marshall Scholarship (1 of 40 selected nationally)	2009
	• Harvard College Research Fellowship	2008
	• National Merit Scholarship	2005-09
	• Robert Byrd Scholarship	2005-09
	• Harvard Bowdoin Prize (Undergraduate Essay), \$10,000	2009
	• Harvard Phi Beta Kappa Junior Electee, 1 of 24 elected as junior	2008
	• John Harvard Scholar, top 5% in class	2006-09
	• United States Presidential Scholar, 1 of 2 selected from each state	2005
	• Youngest Sunday New York Times crossword constructor	2004

ARTICLES AND ARCHIVED CONFERENCE PROCEEDINGS	K. Mahowald, A. Ivanova, I. Blank, N. Kanwisher, J. Tenenbaum, E. Fedorenko. 2023. Dissociating Language and Thought in Large Language Models: A Cognitive Perspective.	
	K. Mahowald. 2023. A Discerning Several Thousand Judgments: GPT-3 Rates the Article + Adjective + Numeral + Noun Construction. Proceedings of EACL 2023.	
	G. Chronis, K. Mahowald, K. Erk. 2023. A Method for Studying Semantic Construal in Grammatical Constructions with Interpretable Contextual Embedding Spaces. Proceedings of ACL 2023 (to appear).	
	J. Huang, Z. Wu, K. Mahowald, C. Potts. 2023. Inducing Character-level Structure in Subword-based Language Models with Type-level Interchange Intervention Training. Proceedings of ACL 2023 (to appear).	
	V. Govindarajan, K. Mahowald, D. Beaver, J. Li. 2023. Counterfactual Probing for the influence of affect and specificity on Intergroup Bias. Findings of ACL 2023 (to appear).	
	Y. Wu, W. Sheffield, K. Mahowald, J. Li. 2023. Elaborative simplification as implicit questions under discussion.	
	S. Malik-Moraleda, O. Jouravlev, Z. Mineroff, T. Cucu, M. Taliaferro, K. Mahowald, I. Blank, E. Fedorenko. 2023. Functional characterization of the language network of polyglots and hyperpolyglots with precision fMRI.	
	W. Liang, K. Mahowald, J. Raymond, V. Krishna, D. Smith, D. Jurafsky, D. McFarland, J. Zou. 2023. How random is the review outcome? A systematic study of the impact of external factors on eLife peer review.	
	O. Jouravlev, K. Mahowald, A. Paunov, E. Gibson, E. Fedorenko. 2023. Evaluation of Psychometric Properties and Inter-test Associations for Three Popular Measures of Social Competence.	
	M. Mersinias, K. Mahowald. 2023. Keep it Neutral: Using Natural Language Inference to Improve Generation.	

- A. Diwan, L. Berry, E. Choi, D. Harwath, K. Mahowald. 2022. Why is Winoground Hard? Investigating Failures in Visuolinguistic Compositionality. *Proceedings of EMNLP 2022*.
- N. Rezaii, K. Mahowald, R. Ryskin, B. Dickerson, E. Gibson. 2022. A syntax–lexicon trade-off in language production. *Proceedings of the National Academy of Sciences* 119 (25), e2120203119.
- A. Kaushal, K. Mahowald. 2022. What do tokens know about their characters and how do they know it? *Proceedings of NAACL 2022*.
- K. Mahowald, I. Dautriche, M. Braginsky, E. Gibson. 2022. Efficient communication and the organization of the lexicon. In *Oxford University Press Handbook of the Mental Lexicon*.
- I. Papadimitriou, R. Futrell, K. Mahowald. 2022. When classifying grammatical role, BERT doesn’t care about word order... except when it matters. *Proceedings of ACL 2022*.
- V. Kovatchev, T. Chatterjee, V. Govindarajan, J. Chen, E. Choi, G. Chronis, A. Das, K. Erk, M. Lease, J. Li, Y. Wu, K. Mahowald. 2022. longhorns at DADC 2022: How many linguists does it take to fool a Question Answering model? A systematic approach to adversarial attacks. *Proceedings of DADC 2022*.
- ManyBabies Collective. 2021. Action anticipation based on an agent’s epistemic state in toddlers and adults.
- B. Schmidt, S.T. Piantadosi, K. Mahowald. 2021. Uncontrolled corpus composition drives an apparent surge in cognitive distortions. *Letter to PNAS* (in response to Bollen et al.).
- J. Rozner, C. Potts, K. Mahowald. 2021. Decrypting Cryptic Crosswords: Semantically Complex Wordplay Puzzles as a Target for NLP. *Proceedings of NeurIPS 2021*.
- A. Jones, W. Wang, K. Mahowald. 2021. A Massively Multilingual Analysis of Cross-linguality in Shared Embedding Space. *Proceedings of EMNLP 2021*.
- T. Pimentel, I. Nikkarinen, K. Mahowald, D. Blasi, R. Cotterell. 2021. How (Non-)Optimal is the Lexicon? *Proceedings of NAACL-HLT 2021*.
- I. Papadimitriou, R. Futrell, E. Chi, K. Mahowald. 2021. Deep Subjecthood: Higher-Order Grammatical Features in Multilingual BERT. *Proceedings of EACL 2021*.
- K. Mahowald, M. Norris, D. Jurafsky. 2021. Concord begets concord: A Bayesian model of nominal concord typology. *Proceedings of 95th LSA (2021)*.
- D. Card, P. Henderson, U. Khandelwal, R. Jia, K. Mahowald, D. Jurafsky. 2020. With little power comes great responsibility. *Proceedings of EMNLP 2020*.
- K. Mahowald, G. Kachergis, M.C. Frank. 2020. What counts as an exemplar model, anyway? A commentary on Ambridge (2020). *First Language*.
- E. Gibson, R. Futrell, S.T. Piantadosi, I. Dautriche, K. Mahowald, L. Bergen, R. Levy. 2019. How efficiency shapes human language. *Trends in Cognitive Science*.
- K. Mahowald, I. Dautriche, E. Gibson, S.T. Piantadosi. 2018. Word forms are structured for efficient use. *Cognitive Science*. doi: 10.1111/cogs.12689.
- Z. Mineroff, I.A. Blank, K. Mahowald, E. Fedorenko. 2018. A robust dissociation among the language, multiple demand, and default mode networks: evidence from inter-region correlations in effect size. *Neuropsychologia*. doi: 10.1016/j.neuropsychologia.2018.09.011

- I. Dautriche\*, K. Mahowald\*, E. Gibson, S.T. Piantadosi. 2017. Words cluster phonetically beyond phonotactic regularities. *Cognition* 163: 128-145. doi: 10.1016/j.cognition.2017.02.001.  
\*co-first authors
- E. Gibson, C. Tan, R. Futrell, K. Mahowald, L. Konieczny, B. Hemfroth, E. Fedorenko. 2017. Don't underestimate the benefits of being misunderstood. *Psychological Science*: 1-10. doi: 10.1177/0956797617690277.
- E. Gibson, R. Futrell, J. Jara-Ettinger, K. Mahowald, L. Bergen, S. Ratnasingam, M. Gibson, S.T. Piantadosi, B.R. Conway. 2017. Color naming across languages reflects color use. *Proceedings of the National Academy of Sciences*. 114(40): 10785-10790.
- K. Mahowald, A. James, R. Futrell, E. Gibson. 2016. Structural priming is most useful when the conclusions are statistically robust. *Behavioral and Brain Sciences*, E302.
- I. Dautriche, K. Mahowald, E. Gibson, S.T. Piantadosi. 2016. Wordform similarity increases with semantic similarity: an analysis of 100 languages. *Cognitive Science*. doi: 10.1111/cogs.12453
- K. Mahowald, A. James, R. Futrell, E. Gibson. 2016. A meta-analysis of syntactic priming. *Journal of Memory and Language*, 91, 5-27.
- K. Mahowald, E. Fedorenko. 2016. Reliable individual-level neural markers of highlevel language processing: A necessary precursor for relating neural variability to behavioral and genetic variability. *Neuroimage*, 139, 74-93. doi: 10.1016/j.neuroimage.2016.05.073.
- I. Blank, E. Fedorenko, Z. Balewski, and K. Mahowald. 2016. Syntactic processing is distributed across the language network. *Neuroimage*, 127, 307-323.
- K. Mahowald, P. Graff, J. Hartman, and E. Gibson. 2016. SNAP Judgments: A Small N Acceptability Paradigm (SNAP) for Linguistic Acceptability Judgments. *Language*, 92 (3), 619-635.
- R. Futrell, K. Mahowald, E. Gibson. 2015. Large-Scale Evidence of Dependency Length Minimization in 37 Languages. *Proceedings of the National Academy of Sciences*. 112 (33), 10336-10341. doi: 10.1073/pnas.1502134112
- R. Singh, E. Fedorenko, K. Mahowald, E. Gibson. 2015. Presupposition accommodation is costly only in implausible contexts. *Cognitive Science*. Published online before print July, 2015. doi: 10.1111/cogs.12260
- R. Futrell, K. Mahowald, E. Gibson. 2015. Quantifying Word Order Freedom in Dependency Corpora. *Proceedings of Depling 2015*.
- E. Gibson, P. Jacobson, P. Graff, E. Fedorenko, K. Mahowald, S.T. Piantadosi. 2014. A pragmatic account of complexity in definite Antecedent-Contained-Deletion relative clauses. *Journal of Semantics*. 32 (4): 579-618.
- K. Mahowald and E. Gibson. 2013. Short, frequent words are more likely to appear genetically related by chance. Letter to *Proceedings of the National Academy of Sciences*.
- K. Mahowald, E. Fedorenko, S.T. Piantadosi, and E. Gibson. 2013. Info/information theory: speakers choose shorter words in predictive contexts. *Cognition*, 126, 313-318.
- K. Mahowald. 2012. A Naive Bayes Classifier for Shakespeare's second person pronoun. *Literary and Linguistic Computing*. 27 (1): 17-23. doi:10.1093/lc/fqr045
- K. Mahowald. 2011. An LFG Account of Word Order Freezing. In M. Butt and T. H. King, eds., *Proceedings of the LFG11 Conference*. Hong Kong: CSLI Publications: <http://www-csli.stanford.edu/publications>.
- K. Mahowald. 2010. "It may nat be": Chaucer, Derrida, and the Impossibility of the Gift. *Studies in the Age of Chaucer*. 32:129-150.

TUTORIALS	R. Cotterell, R. Futrell, K. Mahowald, C. Meister, T. Pimentel, A. Williams, and A. Arora. 2022. Information Theory in Linguistics: Methods and Applications. COLING 2022.
POP SCIENCE ARTICLES	K. Mahowald, A. Ivanova. 2022. Google’s powerful AI spotlights a human cognitive glitch: Mistaking fluent speech for fluent thought. <i>The Conversation</i> .
THESES	K. Mahowald. 2016. Cognitive and communicative pressures in natural language. Ph.D. thesis. Massachusetts Institute of Technology.  K. Mahowald. 2011. An LFG Approach to Old English. Master’s thesis. Oxford University.  K. Mahowald. 2009. A Fairy’s Tale: Queen Mab’s Journey from Shakespeare to Modernity. Harvard College.
REFEREED PRESENTATIONS	S. Malik-Moraleda, K. Mahowald, B. Conway, E. Gibson. 2022. Frequency Trumps Proficiency During Lexical Access: Color Naming in Tsimane’-Spanish Bilinguals. AMLAP 2022.  S. Chen, R. Futrell, K. Mahowald. 2022. Investigating information-theoretic properties of the typology of spatial demonstratives. SIGTYP 2022.  I. Papadimitriou, R. Futrell, K. Mahowald. 2022. When Classifying Arguments, BERT Doesn’t Care About Word Order... Except When It Matters. SCiL 2022.  T. Cucu, K. Mahowald. How do linguistics papers talk about non-English languages? Metascience 2021.  K. Mahowald, I. Papadimitriou, D. Jurafsky, R. Futrell. 2021. Accessibility-Based Constraints on Morphosyntax in Corpora of 54 Languages. CUNY Conference on Human Sentence Processing, CUNY 2021.  M. Yen, I. Blank, K. Mahowald. 2021. Competing Effects of Syntax and Animacy in Priming of Relative Clause Attachment. CUNY Conference on Human Sentence Processing, CUNY 2021.  N. Rezaii, K. Mahowald, R. Ryskin, B. Dickerson, E. Gibson. 2021. Syntactic Rule Frequency as a Measure of Syntactic Complexity: Insights from Primary Progressive Aphasia. CUNY Conference on Human Sentence Processing, CUNY 2021.  K. Mahowald, D. Jurafsky, M. Norris. 2021. Concord begets concord: a Bayesian model of nominal concord. Linguistics Society of America Conference 2021.  I. Papadimitriou, R. Futrell, E. Chi, K. Mahowald. 2021. Multilingual BERT, ergativity, and grammatical subjecthood. SCiL 2021.  I. Papadimitriou, R. Futrell, E. Chi, K. Mahowald. 2020. Multilingual BERT learns abstract case representations. EMNLP 2020: SIGTYP.  K. Mahowald, A. James, R. Futrell, E. Gibson. 2016. A meta-analysis of syntactic priming in language production. Annual CUNY Conference on Human Sentence Processing, CUNY 2016. Gainesville, FL. March 3-5, 2016.  K. Mahowald, I. Dautriche, E. Gibson, A. Christophe, E. Gibson. 2014. Efficient phonological clustering in the mental lexicon. Ninth International Conference on the Mental Lexicon. Niagara-on-the-Lake, Ontario, Canada. September 30-October 2, 2014.  I. Dautriche, K. Mahowald, E. Gibson, A. Christophe, E. Gibson. 2014. Lexical clustering in efficient language design. AMLaP 2014 (Architectures and Mechanisms for Language Processing). Edinburgh, UK. September 3-6, 2014.

REFEREED  
POSTERS

- K. Mahowald, P. Graff, J. Hartman, E. Gibson. 2014. SNAP Judgments: Small N Acceptability Paradigm (SNAP) for linguistic judgments. AMLaP 2014 (Architectures and Mechanisms for Language Processing). Edinburgh, UK. September 3-6, 2014.
- K. Mahowald, A. Jacobs, A. Fahimipour, M. Kleiman-Weiner. 2013. Measure for Measure: Quantifying Shakespearean Drama. Links 2013. MIT Media Lab. July 22–23, 2013.
- K. Mahowald. 2011. An LFG Account of Word Order Freezing. Sixteenth International LFG Conference. Hong Kong. July 16–19, 2011.
- S. Chen, R. Futrell, K. Mahowald. 2022. An information-theoretic approach to the typology of spatial demonstratives. Human Sentence Processing (HSP) 2022.
- T.I. Regev, J. Affourtit, X. Chen, L. Bergen, K. Mahowald, E. Fedorenko. 2020. Sensitivity of high-level language processing brain regions to phonological information. Society for the Neurobiology of Language 2020.
- S. Ratnasingam, E. Gibson, R. Futrell, J. Jara-Ettinger, K. Mahowald, L. Bergen, S.T. Piantadosi, B. Conway. 2017. Statistical variations in the power spectrum of daylight over a day predict communicative efficiency of color-language. VSS.
- K. Mahowald, M. Kline, E. Fedorenko, E. Gibson. 2015. Informativity and efficient compression of sentences. Annual CUNY Conference on Human Sentence Processing, CUNY 2015. Los Angeles, CA. March 19-21, 2014.
- K. Mahowald, S.T. Piantadosi, M. Alper, E. Gibson. 2015. Lexical items are privileged slots for meaning. Annual CUNY Conference on Human Sentence Processing, CUNY 2015. Los Angeles, CA. March 19-21, 2014.
- R. Futrell, K. Mahowald, E. Gibson. 2014. CLIQS: Cross-Linguistic Investigations in Quantitative Syntax. AMLaP 2014 (Architectures and Mechanisms for Language Processing). Edinburgh, UK. September 3-6, 2014.
- K. Mahowald, P. Isola, E. Fedorenko, A. Oliva, E. Gibson. 2014. An information-theoretic account of word memorability. AMLaP 2014 (Architectures and Mechanisms for Language Processing). Edinburgh, UK. September 3-6, 2014.
- K. Mahowald, E. Fedorenko. Reliable individual-level neural markers of language activity. Neurobiology of Language 2014. Amsterdam. August 27-29, 2014.
- E. Gibson, P. Jacobson, P. Graff, K. Mahowald, E. Fedorenko, S.T. Piantadosi. Pragmatic influences on the processing of ACD relative clauses. 27th Annual CUNY Conference on Human Sentence Processing, CUNY 2014. Columbus, OH. March 13-15, 2014.
- R. Futrell, K. Mahowald, S.T. Piantadosi, E. Gibson. Efficient Communication Forwards and Backwards. 27th Annual CUNY Conference on Human Sentence Processing, CUNY 2014. Columbus, OH. March 13-15, 2014.
- K. Mahowald, S.T. Piantadosi, E. Gibson. 2013. Lexical clustering in efficient language design. 26th Annual CUNY Conference on Human Sentence Processing, CUNY 2013. Columbia, SC. March 22, 2013.
- K. Mahowald, T.J. O'Donnell, and J.B. Tenenbaum. 2013. Filling in the blanks in morphological productivity: a word completion task. 26th Annual CUNY Conference on Human Sentence Processing, CUNY 2013. Columbia, SC. March 23, 2013.
- K. Mahowald, E. Fedorenko, S.T. Piantadosi, E. Gibson. 2012. Info/information theory: speakers actively choose shorter word in predictive contexts. 25th Annual CUNY Conference on Human Sentence Processing, CUNY 2012. New York. March 16, 2012.

INVITED  
PRESENTATIONS

- K. Mahowald. 2022. Exploring subjectivity in large language models using predicates of personal taste. Subjectivity and Semantic Interpretation. Workshop at NASSLLI 2022.
- K. Mahowald. 2022. Redundancy of grammatical cues and word meanings. Ev Fedorenko Lab Meeting. MIT.
- K. Mahowald. 2021. Language models: Surprisingly good at modeling language, unsurprisingly bad at modeling thought. UT Linguistics Syntax-Semantics Research Seminar.
- K. Mahowald. 2021. Deep Subjecthood. SIGTYP Lecture Series. September 10, 2021.
- K. Mahowald. 2021. Exploring grammatical role in machines. Boston University. March 11, 2021.
- K. Mahowald. 2021. Deep Subjecthood: Exploring grammatical role in humans and machines. UT Austin. March 1, 2021.
- K. Mahowald. 2020. A BERT’s eye view of linguistics. Trace. Modesto, California [remote]. August 21, 2020.
- K. Mahowald. 2020. Understanding linguistic structure through computational models of language. Linguistics Department. University of California, Santa Cruz [remote]. June 18, 2020.
- K. Mahowald 2020. Computation and Language. Apple, Inc. Cupertino, California [remote]. April 17, 2020.
- K. Mahowald. 2020. Computational and communicative pressures in language. Linguistics Department. Boston University. February 20, 2020.
- K. Mahowald. 2020. Cognitive pressures in language. Linguistics. University of Texas Austin. February 17, 2020.
- K. Mahowald. 2020. Cognitive and communicative pressures in language. Department of Psychology, Department of Language Sciences. University of Wisconsin Madison. February 3, 2020.
- K. Mahowald. 2020. Human language as a window into cognition. Department of Psychology. University of California Berkeley. January 29, 2020.
- K. Mahowald. 2020. Communicative pressures in language. Linguistics Department. University of California Santa Barbara. January 23, 2020.
- K. Mahowald. 2020. Cognitive and communicative pressures in language. Language and Cognition Talk Series. Stanford University. January 16, 2020.
- K. Mahowald. 2019. NLP, Communication, and Language. NLP Lunch. Stanford University. October 31, 2019.
- K. Mahowald. 2019. Cognitive and communicative pressures in natural language. Department of Linguistics and Department of Computer Science. McGill University. March 14, 2019.
- K. Mahowald. 2019. Cognitive and communicative pressures in language. School of Philosophy, Psychology, and Language Sciences. Edinburgh University. February 28, 2019.
- K. Mahowald. 2019. Cognitive and communicative pressures in language. Department of Linguistics. University of Florida. February 5, 2019.
- K. Mahowald. 2019. Cognitive and communicative pressures in language. Department of Linguistics. Northwestern University. January 31, 2019.

- K. Mahowald. 2015. Four mini-talks in psycholinguistics. CogLunch. Department of Brain and Cognitive Sciences. MIT. May 12, 2015.
- K. Mahowald. 2014. Efficient structure in the lexicon. Mini-Symposium on the Neural and Cognitive Mechanisms of Language. Department of Psychology. Harvard University. December 4, 2014.
- K. Mahowald. 2014. Efficient lexical structure. Department of Brain and Cognitive Sciences. Invited Talk. University of Rochester. October 3, 2014.
- K. Mahowald. 2014. Learning and organizational structure of the lexicon. Stanford Language and Cognition Lab Meeting. Stanford University. May 13, 2014.
- K. Mahowald, A. Jacobs, A. Fahimipour, E. Pechenick, M. Kleiman-Weiner. 2013. Measure for Measure: Quantifying Shakespeare. Santa Fe Complex Systems Summer School. Santa Fe Institute. June 28, 2013.
- K. Mahowald. 2013. Finding structure in the lexicon. CogLunch. MIT. April 9, 2013.
- K. Mahowald. 2013. Efficient lexical design. Tedlab Lab Meeting. MIT. April 8, 2013.
- M. Frank, K. Mahowald, and E. Gibson. 2012. Syntactic and lexical alternations in noisy environments. MIT Summer Research Program, 2012.
- K. Mahowald. 2011. Computationally classifying the second person pronoun in Early Modern English. Tedlab Lab Meeting. MIT. October 4, 2011.
- K. Mahowald. 2011. Word order freezing in Old English. Oxford Syntax Working Group. Oxford. February 23, 2011.
- K. Mahowald. 2010. Verb clusters in Old English. 3rd South of England LFG Meeting. SOAS, London. October 23, 2010.

#### MEDIA APPEARANCES

##### Large Language Models

- Wired, “Some Glimpse AGI in ChatGPT. Others Call It a Mirage”
- TechTalks, “To understand language models, we must separate language from thought”
- The Atlantic, “The Difference Between Speaking and Thinking”

##### Wordle

- The Ringer, in “What to Do When Playing the Word Game Wordle Isn’t Enough? Solve It.”
- Stanford Daily, in “How to beat Wordle: linguists from Stanford explain”
- Fort Worth Star Telegram, in “Wordle strategy: Common daily words to start the online game”

##### Wordnesia

- Slate, Rohds. Rowds. Row-ads? Rhowds???

##### Sudoku

- Seattle Times, in “Sudoku as spectator sport: Game has its first smackdown”

#### STUDENTS SUPERVISED

##### **Dissertation committee member**

- Gabriella Chronis, UT Austin
- Venkata Govindarajan, UT Austin
- Yejin Cho, UT Austin
- Kristin Denlinger, UT Austin
- Phill Rogers, UCSB, 2022

##### **Qualifying paper committee member**

- Gabriella Chronis, UT Austin, 2022



## TEACHING

### Master's theses supervised

- Jaylen Pittman, UCSB, 2020-2021

### Master's thesis committee member

- Phill Rogers, UCSB, 2021

### Undergraduate theses supervised

- David Arriaza, UCSB, 2020-2021

### UT Austin

- Instructor, LIN 313 Language and Computers Fall 2021
- Instructor, LIN 393 What Do Neural Networks Know About Linguistic Structure Spring 2022

### University of California Santa Barbara

- Instructor, LING 226 Cognitive Foundations of Language Fall 2020
- Instructor, LING 127 Psychology of Language Winter 2021
- Instructor, LING 104 Statistical Methods in Linguistics Spring 2021
- Instructor of record for UCSB Linguistics Inclusive teaching initiative for LING 226, LING 127, LING 104 2020-2021

### Massachusetts Institute of Technology

- Teaching assistant, MIT 9.59 Lab in Psycholinguistics 2014
  - Received perfect student evaluations.
  - Refined statistics curriculum developed in 2013.
  - Held regular lectures instructing students in R and statistics.
- Teaching assistant, MIT 9.59j Lab in Psycholinguistics 2013
  - Designed and taught data analysis section of lab course. Held regular lectures instructing students in R and statistics.
  - Helped students design, run, and analyze their own psycholinguistics experiments.
  - Won Angus McDonald Award for Undergraduate Teaching.
- Research supervisor 2011-
  - Supervised student for MIT Summer Research Program, 2012
  - Supervised ~ 5 students for UROP (MIT's undergraduate research program)
  - Instructed and advised students in research methods, experimental design, and writing.

### Guest Lectures

- 'Language algorithms and AI Ethics', UC Santa Cruz PHIL 190 Ethics of Data and Technology, Fall 2020
- 'Cognitive Science: Language', UCSB 200A, Fall 2020
- 'Language and information', MIT 9.012, Spring 2015
- 'Sound Structure and Communication', MIT 9.012 Cognitive Science (graduate class), Spring 2013
- 'Language and Information Theory', MIT 9.59j Lab in Psycholinguistics, Spring 2013
- 'Introduction to Language', MIT 9.65 Cognitive Processes, Spring 2013

SERVICE AND  
DIVERSITY WORK

**Services**

- 2021-2022, Member, UT Data in the Social & Behavioral Sciences Task Force
- 2021-2022, Member, UT College of Liberal Arts Competitive Scholarship Committee
- 2021-2022, Member, UT Austin Scholarships Committee (for UT Marshall and Rhodes candidates)
- 2021-2022, Member, UT Linguistics Colloquium Committee
- 2020-2021, Participant, Undocumented Student Services Mentoring Program
- 2020-2021, Member, UCSB Linguistics Inclusive Teaching Initiative
- 2019-2020, Committee member, Committee on Climate, Diversity, and Inclusion, Stanford University NLP Group
- 2020-2021 Committee member, UCSB National Scholarships Selection Committee
- Reader, Marshall Scholarship Selection Committee, Boston Region
- Member, MIT Distinguished Fellowship Committee
- Volunteer fellowships panelist, Harvard Office of Career Services

**Editing and Chairing**

- Area chair, EMNLP 2021
- Area chair, ACL-IJCNLP 2021
- Ethics Committee member, EMNLP 2022
- Guest editor, *Open Mind*

**Grant Reviewing**

- 2022, External Evaluator, British Academy/Wolfson Research Professorships
- 2021-2022 Panelist, NSF Education and Human Resources (EHR)
- 2021-2022 Panelist, NSF Computer and Information Science and Engineering (CISE)
- 2021 Ad-hoc reviewer, NSF Education and Human Resources (EHR)

**Paper Reviewing**

- 2023, ACL
- 2023, Open Mind
- 2023, Cognition
- 2022, JML
- 2022, ACL Rolling Review October (2 papers)
- 2021, ACL Rolling Review October (2 papers)
- 2021, ACL Rolling Review November (5 papers)
- 2022, ACL Rolling Review January (2 papers)
- 2022, ACL Rolling Review March (1 paper)
- 2022, Reviewer for Human Sentence Processing Conference (8 abstracts)
- 2022, Reviewer for CogSci 2022
- 2022, Glossa
- 2021-2022, Cognition (2x)
- 2022, Cognitive Science (3x)
- 2021-2022, Journal of Memory and Language (4x)
- 2021, PLoS One
- 2021, Psychological Science
- 2021, Open Mind
- *Science*
- *Entropy*
- *Science Advances*
- *Cognitive Science*
- *Memory & Cognition*
- *Journal of Experimental Psychology: Learning, Memory, and Cognition*
- *Open Mind*
- *Journal of Memory and Language*
- *Topics in Cognitive Science*
- *Cognition*

- *Literary and Linguistic Computing*
- *Cogsci* conference
- *CUNY Sentence Processing Conference 2017, 2018*
- *Events in Language and Cognition 2016*

#### NON-ACADEMIC POSITIONS

- Freelance puzzle construction, published in NYT, WSJ, LA Times, GAMES Magazine, Universal Press Syndicate, Chicago Tribune, etc., 2004-
- Spirit Airlines in-flight crossword constructor, 2004-2010
- Assistant to New York Times crossword editor Will Shortz, 2006