John T. Hale

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Athens, GA 30606
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Education

2003	Ph.D. in Cognitive Science from the Johns Hopkins University Thesis: "Grammar, Uncertainty and Sentence Processing" Advisors: Paul Smolensky, Edward P. Stabler, Jr., Edward A.F. Gibson	Baltimore, MD
2000	M.A. in Cognitive Science from the Johns Hopkins University Thesis: "Dynamical Parsing and Harmonic Grammar" Advisor: Paul Smolensky	Baltimore, MD
1998	Sc.B. in Cognitive Science & Computer Science from Brown University Thesis: "Getting Useful Gender Statistics from English Text" Advisor: Eugene Charniak	Providence, RI

Employment History

2018—present	Arch Professor, Department of Linguistics, University of Georgia
2017—present	Research Scientist, Google DeepMind
2008—2018	Associate Professor, Department of Linguistics, Cornell University (tenure awarded 2011)
2014—2015	Visiting Scholar, Center for Cognitive Brain Imaging, Carnegie Mellon University
Spring 2012	Guest Professor, University of Potsdam (Germany)
Fall 2006	Visiting Professor, Department of Linguistics, Stanford University
2005—2008	Assistant Professor, Department of Computer Science and Engineering, Michigan State University
2003—2008	Assistant Professor, Department of Linguistics and Germanic, Slavic, Asian and African Languages, Michigan State University

Grants Awarded

2022—2025	NSF Division of Behavioral and Cognitive Sciences "Endangered languages in contact" role: co-PI. $449,712.
2022—2023	UGA Center for Teaching and Learning "Incorporating Experiential Learning into the Language and Linguistics Curriculum" role: co-director. $23,845.
2016—2023	NSF Collaborative Research in Computational Neuroscience "Neuro-computational Models of Natural Language" role: PI. ∼$1M

2018	UGA Center for Teaching and Learning "Natural Language Corpora at UGA" $23,565 with ∼$4K/year continuing funding from on-campus partners
2016	Jeffrey Sean Lehman Fund for Scholarly Exchange with China. "Neural Mechanisms of Relative Clause Processing in Chinese and English" $13,000
2009	Cornell Institute for the Social Sciences Small Grant program "What are the Pieces of Language Knowledge?" $6000
2008—2015	National Science Foundation CAREER Award "Automaton theories of human sentence processing" $504,370
2004—2005	Michigan State University Intramural Research Grant Program "Grammar and Algorithms for Disfluency" $50,000.

Grant Proposals Currently Under Review

Cross-linguistic computational neuroscience
: NSF Collaborative Research in Computational Neuroscience. With Jonathan Brennan (Michigan), Lars Meyer (Max Planck Institute), Savithry Namboodiripad (Michigan) and Luca Campanelli (Alabama).

Intracranial representations of semantic category in the human language network
: NIH National Institute on Deafness and Other Communication Disorders. With Matthew Nelson (Alabama at Birmingham School of Medicine)

Prizes, awards and other honors

2018	Best Paper Award, Association for Computational Linguistics. Shared with Chris Dyer, Adhiguna Kuncoro and Jonathan Brennan for "Finding syntax in human encephalography with beam search"
2018	UGA Franklin College International Faculty Exchange. Reciprocal exchange with Lars Meyer of the Max Planck Institute, Leipzig
2011	Cornell Robert and Helen Appel Fellowship "recognizing excellence in teaching, scholarly promise and dedication to advancing knowledge"
2003	E.W. Beth Dissertation Prize given by the European Association for Language, Logic, and Information for "the best dissertation which resulted in a PhD in the year 2003"
2002	Jerrold J. Katz Young Scholar Award "awarded for the paper or poster presented at the CUNY [City University of New York] Sentence Processing Conference which best exemplifies the qualities of intellectual rigor, creativity, and independence of thought which were exemplified in Dr. Katz' life and work"

Publications

Under Review or In Revision

- Jixing Li, Shaonan Wang, Wen-Ming Luh, Liina Pylkkänen, Yiming Yang and John Hale. Cortical processing of reference in language revealed by computational models. preprint `doi:10.1101/2020.11.24.396598`

Book

2014 Automaton Theories of Human Sentence Comprehension. CSLI Publications.
A review appears in the December 2016 issue (92.4) of the journal *Language*

Journal articles (refereed)

2023 Miloš Stanojević, Jonathan R. Brennan, Donald Dunagan, Mark Steedman and John Hale. Modeling neural structure-building with CCG parsing and large language models. Cognitive Science volume 47 issue 7 page e13312 doi:10.1111/cogs.13312

2023 Donald Dunagan, Miloš Stanojević, Maximin Coavoux, Shulin Zhang, Shohini Bhattasali, Jixing Li, Jonathan Brennan and John Hale. Neural correlates of object-extracted relative clause processing across English and Chinese. Neurobiology of Language volume 4 number 3 pages 455–473. doi:10.1162/nol_a_00110

2022 Jixing Li, Shohini Bhattasali, Shulin Zhang, Berta Franzluebbers, Wen-Ming Luh, R. Nathan Spreng, Jonathan R. Brennan, Yiming Yang, Christophe Pallier, John Hale. Le Petit Prince multilingual naturalistic fMRI. Scientific Data volume 9, page 530–545. doi:10.1038/s41597-022-01625-7.

2022 Donald Dunagan, Shulin Zhang, Jixing Li, Shohini Bhattasali, Christophe Pallier, John Whitman, Yiming Yang, John Hale. Neural correlates of semantic number: a cross-linguistic investigation. Brain and Language volume 229 article 05110 doi:10.1016/j.bandl.2022.105110

2022 Shulin Zhang, Jixing Li, Yiming Yang and John Hale. Decoding the silence: Neural bases of zero pronoun resolution in Chinese. Brain and Language volume 224 article 105050 doi:10.1016/j.bandl.2021.105050

2021 Zhong Chen and John T. Hale. Quantifying Structural and Non-structural Expectations in Relative Clause Processing. Cognitive Science volume 45 page e12927. doi:10.1111/cogs.12927

2020 Jonathan R. Brennan, Chris Dyer, Adhiguna Kuncoro and John T. Hale. Localizing syntactic predictions using recurrent neural network grammars. Neuropsychologia volume 146 article 107479 doi:10.1016/j.neuropsychologia.2020.107479

2019 Jonathan R. Brennan and John T. Hale. Hierarchical structure guides rapid linguistic predictions during naturalistic listening. PLoS-1 volume 14 number 1 page e0207741 doi:10.1371/journal.pone.0207741.

2018 Shohini Bhattasali, Murielle Fabre, Wen-Ming Luh, Hazem Al Saied, Mathieu Constant, Christophe Pallier, Jonathan R. Brennan, R. Nathan Spreng and John Hale. Localising memory retrieval and syntactic composition: an fMRI study of naturalistic language comprehension. Language, Cognition and Neuroscience volume 34 number 4 pages 491–510 doi:10.1080/23273798.2018.1518533

2018 Jonathan R. Brennan, Renee Lajiness-O'Neill, Susan Bowyer, Ioulia Kovelman and John T. Hale. Predictive sentence comprehension during story-listening in autism spectrum disorder. Language, Cognition and Neuroscience volume 34 number 4 pages 428–439 doi:10.1080/23273798.2018.1560483

2017 Matthew Nelson, Sydney Cash, Lionel Naccache, Imen El Karoui, Kristof Giber, Laurent Cohen, Stanislas Dehaene, Xiaofang Yang, Hilda Koopman, John Hale, and Christophe Pallier. Neurophysiological dynamics of phrase-structure building during sentence processing. Proceedings of the National Academy of Sciences (USA) volume 114 number 18 pages E3669-E3678. doi:10.1073/pnas.1701590114

2016 Jonathan R. Brennan, Edward P. Stabler, Jr, Sarah E. Van Wagenen, Wen-Ming Luh and John Hale. Abstract Linguistic Structure Correlates with Temporal Activity during Naturalistic Comprehension. Brain and Language, volume 157–158, pages 81–94. doi:10.1016/j.bandl.2016.04.008

2016 John Hale. Information-theoretical complexity metrics. Language and Linguistics Compass, volume 10, issue 9. pages 397–412. doi:10.1111/lnc3.12196

2015 Jiwon Yun, Zhong Chen, Tim Hunter, John Whitman and John Hale. Uncertainty in processing relative clauses across East Asian languages. Journal of East Asian Linguistics volume 24 issue 2 pages 113–148. doi:10.1007/s10831-014-9126-6

2013 John Hale and David Reitter. Introduction to the Issue on Computational Models of Natural Language. TopICS in Cognitive Science volume 5 issue 3. pages 388–391. doi:10.1111/tops.12038

2011 Christina Kim, Gregory Kobele, Jeffrey Runner and John Hale. The acceptability cline in VP ellipsis. Syntax: a journal of theoretical, experimental and interdisciplinary research, volume 14, issue 4, pages 318–354. doi:10.1111/j.1467-9612.2011.00160.x

2011 John Hale. What a rational parser would do. Cognitive Science, volume 35, number 3. pages 399–443. doi:10.1111/j.1551-6709.2010.01145.x

2010 Marisa Ferrara Boston, John Hale, Shravan Vasishth and Reinhold Kliegl. Parallel processing and sentence comprehension difficulty. Language and Cognitive Processes, volume 26, issue 3. pages 301–349. doi:10.1080/01690965.2010.492228

2008 Marisa Ferrara Boston, John Hale, Reinhold Kliegl, Umesh Patil and Shravan Vasishth. Parsing costs as predictors of reading difficulty: An evaluation using the Potsdam Sentence Corpus. Journal of Eye Movement Research, volume 2, number 1. pages 1–12. doi:10.16910/jemr.2.1.1

2006 John Hale. Uncertainty about the rest of the sentence. Cognitive Science, volume 30, number 4. pages 609–642. doi:10.1207/s15516709cog0000_64

2003 John Hale. The information conveyed by words in sentences. Journal of Psycholinguistic Research, volume 32, number 2. pages 101–123.

Book chapters (refereed)

2019 Jixing Li and John Hale. Grammatical Predictors for fMRI timecourses. Chapter 7 in Minimalist Parsing edited by Robert C. Berwick & Edward P. Stabler. Oxford University Press. pages 159–173. doi:10.1093/oso/9780198795087.003.0007

2018 Zhong Chen and John Hale. Parsing Chinese relative clauses with structural and non-structural cues. In K. Nishiyama, H. Kishimoto and E. Aldridge eds. Topics in Theoretical Asian Linguistics: Studies in honor of John B. Whitman. pages 253–283. doi:10.1075/la.250

2012 Gregory M. Kobele, Sabrina Gerth and John Hale. Memory Resource Allocation in Top-Down Minimalist Parsing. In Glyn Morrill and Mark-Jan Nederhof eds. Proceedings of Formal Grammar 2012/2013. LNCS volume 8036. pages 32–51. doi:10.1007/978-3-642-39998-5

2010 Zhong Chen and John Hale. Deforesting LF. In Christian Ebert, Gerhard Jäger and Jens Michaelis eds., The Mathematics of Language. LNCS volume 6149. pages 13–28.

2010 Marisa F. Boston, John Hale and Marco Kuhlmann. Dependency Structures Derived from Minimalist Grammars. ibid, pages 1–12.

2006 John Hale and Paul Smolensky. Harmonic Grammars and Harmonic Parsers for Formal Languages in P. Smolensky and G. Legendre, eds. The Harmonic Mind: From Neural Computation to Optimality Theoretic Grammar, chapter 10. MIT Press. pages 393–415.

2005 John Hale and Edward P. Stabler, Jr. Strict Deterministic Aspects of Minimalist Grammars in P. Blache, E. Stabler, J. Busquets and R. Moot eds. Logical Aspects of Computational Linguistics. Springer Lecture Notes in Artificial Intelligence #3492. pages 162–176.

2004 John Hale and Géraldine Legendre. Minimal Links, Remnant Movement, and (Non-)Derivational Grammar in A. Stepanov, G. Fanselow and R. Vogel, eds. Minimality Effects in Syntax. Mouton de Gruyter. pages 177–203.

Conference proceedings (refereed)

2024 Berta Franzluebbers, Donald Dunagan, Jan Buys and John Hale. Multipath parsing in the brain. Accepted at ACL2024, main conference. preprint available at arXiv:2401.18046 [cs.CL]

2024 Shulin Zhang, John Hale, Margaret Renwick, Zvjezdana Vrzić and Keith Langston. An Evaluation of Croatian ASR Models for Čakavian Transcription. Accepted for publication in the proceedings of LREC 2024.

2022 Shulin Zhang, Jixing Li and John Hale. Quantifying Discourse Support for Omitted Pronouns. Proceedings of the Fourth Workshop on Computational Models of Reference, Anaphora and Coreference. pages 1-12.

2021 Miloš Stanojević, Shohini Bhattasali, Donald Dunagan, Luca Campanelli, Mark Steedman, Jonathan Brennan and John Hale. Modeling Incremental Language Comprehension in the Brain with Combinatory Categorial Grammar. Proceedings of the Workshop on Cognitive Modeling and Computational Linguistics. doi:10.18653/v1/2021.cmcl-1.3

2020 Shohini Bhattasali, Jonathan R. Brennan, Wen-Ming Luh, Berta Franzluebbers and John T. Hale. The Alice Datasets: fMRI & EEG Observations of Natural Language Comprehension. Proceedings of the Language Resources and Evaluation Conference. Marseille, France.

2019 John Hale, Adhiguna Kuncoro, Keith Hall, Chris Dyer and Jonathan Brennan. Text Genre and Training Data Size in Human-Like Parsing. Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing (EMNLP) and 9th International Joint Conference on Natural Language Processing (IJCNLP). doi:10.18653/v1/D19-1594

2019 Shohini Bhattasali and John Hale. Diathesis alternations and selectional restrictions: A fMRI Study. Proceedings of the Annual Meeting of the Chicago Linguistic Society, Volume 55, Number 1. pages 33–43.

2018 Shohini Bhattasali, Murielle Fabre and John Hale. Processing MWEs: Neurocognitive Bases of Verbal MWEs and Lexical Cohesiveness within MWEs. Proceedings of the Joint Workshop on Linguistic Annotation, Multiword Expressions and Constructions (COLING 2018). pages 6–17.

2018 John Hale, Chris Dyer, Adhiguna Kuncoro and Jonathan Brennan. Finding syntax in human encephalography with beam search. Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics. pages 2727–2736. Best paper award. doi:10.18653/v1/P18-1254

2018 Adhiguna Kuncoro, Chris Dyer, John Hale, Dani Yogatama, Stephen Clark and Phil Blunsom. LSTMs Can Learn Syntax-Sensitive Dependencies Well, But Modeling Structure Makes Them Better. Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics. pages 1426–1436. doi:10.18653/v1/P18-1132

2018 Shohini Bhattasali, John Hale, Christophe Pallier, Jonathan Brennan, Wen-Ming Luh and Nathan R. Spreng. Differentiating Phrase Structure Parsing and Memory Retrieval in the Brain. Proceedings of the Society for Computation in Linguistics volume 1, article 9. pages 74–80. doi:10.7275/R5FF3QJ2

2017 Matthew Nelson, Stanislas Dehaene, Christophe Pallier and John Hale. Entropy Reduction correlates with Temporal Lobe Activity. Proceedings of the 2017 Workshop on Cognitive Modeling and Computational Linguistics, European Chapter of the Association for Computational Linguistics, Valencia. doi:10.18653/v1/W17-0701

2016 Jixing Li, Jonathan Brennan, Adam Mahar and John Hale. Temporal Lobes as Combinatory Engines for both Form and Meaning. Workshop on Computational Linguistics for Linguistic Complexity at COLING 2016, Osaka.

2015 John T. Hale, David E. Lutz, Wen-Ming Luh and Jonathan R. Brennan. Modeling fMRI time courses with linguistic structure at various grain sizes. Proceedings of the 2015 Workshop on Cognitive Modeling and Computational Linguistics, North American Association for Computational Linguistics. Denver, CO. doi:10.3115/v1/W15-1110

2014 Zhong Chen, Jiwon Yun, Tim Hunter and John Hale. Modeling sentence processing difficulty with a conditional probability calculator. Proceedings of the Annual Meeting of the Cognitive Science Society, pages 1856–1857.

2010 Jiwon Yun, John Whitman and John Hale. Subject-Object Asymmetries in Korean sentence comprehension. Proceedings of the Annual Meeting of the Cognitive Science Society. pages 2152–2157.

2009 John Hale. Heuristic search in a cognitive model of human parsing. Proceedings of the International Workshop on Parsing Technologies. pages 230–234.

2007 John Hale. Deforesting LF. UCLA Working Papers in Linguistics: Proceedings of Mathematics of Language 10. doi:10.1007/978-3-642-14322-9

2006 John Hale, Izhak Shafran, Lisa Yung, Bonnie Dorr, Mary Harper, Anna Krasnyanskaya, Matthew Lease, Yang Liu, Brian Roark, Matthew Snover and Robin Stewart. PCFGs With Syntactic and Prosodic Indicators of Speech Repairs. In Proceedings of the Joint Conference of the International Committee on Computational Linguistics and the Association for Computational Linguistics (COLING-ACL). pages 161–168. doi:10.3115/1220175.1220196

2006 Brian Roark, Yang Liu, Mary Harper, Robin Stewart, Matthew Lease, Matthew Snover, Izhak Shafran, Bonnie Dorr, John Hale, Anna Krasnyanskaya and Lisa Yung. Reranking for Sentence Boundary Detection in Conversational Speech. In Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing. Toulouse, France. doi:10.1109/ICASSP.2006.1660078

2005 Andrew Cooper and John Hale. Promotion of Disfluency in Syntactic Parallelism. Proceedings of Disfluency in Spontaneous Speech '05. pages 59–63.

2004 John Hale. The Information-processing Difficulty of Incremental Parsing. Proceedings of the ACL04 Workshop entitled Incremental Parsing: Bringing Engineering and Cognition Together. pages 58–65.

2001 John Hale. A Probabilistic Earley Parser as a Psycholinguistic Model. In Proceedings of the Second Meeting of the North American Chapter of the Association for Computational Linguistics. pages 159–166.

2001 John Hale and Paul Smolensky. A Parser for Harmonic Context-Free Grammars. In Proceedings of the 23rd Annual Conference of the Cognitive Science Society. pages 427–432.

1998 Niyu Ge, John Hale and Eugene Charniak. A Statistical Approach to Anaphora Resolution. In Proceedings of the Sixth Workshop on Very Large Corpora (held at COLING/ACL-98). pages 161–170.

Reviews

2022 John Hale, Luca Campanelli, Jixing Li, Shohini Bhattasali, Christophe Pallier, Jonathan Brennan. "Neuro-computational models of language processing." Annual Review of Linguistics volume 8 doi:10.1146/annurev-linguistics-051421-020803

2018 John Hale. "Computational Psycholinguistics." Oxford Research Encyclopedia of Linguistics. doi:10.1093/acrefore/9780199384655.013.377

2007 John Hale. Review of S. Fulop, "On the Logic and Learning of Language." Journal of Logic, Language & Information, volume 16. pages 217–220.

Selected Conference presentations

2023 Luca Campanelli, Klara Martin, John T.Hale and Julie Van Dyke. How memory retrieval and prediction shape sentence processing. Talk given at the American Speech-Language-Hearing Association convention, Boston MA.

2021 Luca Campanelli and John Hale. Word predictability in context reduces retrieval interference during natural reading. Poster presented virtually at the Association for Psychological Science annual convention.

2020 Donald Dunagan, Shulin Zhang, Christophe Pallier, John Whitman and John Hale. Grammatical number in French and Chinese brains. Poster presented at Neurobiology of Language, Philadelphia PA.

2020 Shohini Bhattasali, Murielle Popa-Fabre and John Hale. Probing the neural correlates of argument structure: A fMRI study of naturalistic language. Poster presented at the 33rd CUNY Human Sentence Processing Conference. Amherst, MA. https://osf.io/ed357/

2020 Miloš Stanojević, John Hale and Mark Steedman. Predictive Processing of Coordination in CCG. Poster presented at the 33rd CUNY Human Sentence Processing Conference. Amherst, MA. https://osf.io/2xjgn

2019 Shulin Zhang, Jixing Li, Wen-Ming Luh and John Hale. Neural correlates of semantic role processing in naturalistic language comprehension: an fMRI study. Poster presented at Neurobiology of Language. Helsinki, Finland.

2019 Jonathan Brennan, Andrea Martin, Donald Dunagan, Lars Meyer and John Hale. Resolving dependencies during naturalistic listening. Poster presented at Neurobiology of Language. Helsinki, Finland.

2018 Jixing Li, Murielle Fabre, Wen-Ming Luh and John Hale. fMRI evidence for binding theory during anaphora resolution in naturalistic listening. Poster presented at Neurobiology of Language, Quebec City, QC.

2018 Murielle Fabre, Shohini Bhattasali and John Hale. Dissociating prediction and constituent-structure during sentence-structure building. Poster presented at Neurobiology of Language. Quebec City, QC.

2018 Shohini Bhattasali, Murielle Fabre and John Hale. Right Lateralization of Verbal Collocations. Poster presented at Architectures and Mechanisms of Language Processing. Berlin, Germany.

2017 John Hale, Shohini Bhattasali, Jonathan Brennan, Jixing Li, Wen-Ming Luh, Christophe Pallier, R. Nathan Spreng. Localizing Structure-building and Memory Retrieval in Naturalistic Language Comprehension. Poster presented at Neurobiology of Language. Baltimore MD.

2016 Jonathan Brennan, Max Cantor, Rachel Eby and John Hale. EEG correlates of syntactic expectation reflect both word-to-word and hierarchical dependencies. Talk presented at the 29th CUNY Human Sentence Processing Conference. Gainesville FL.

2015 John Hale. Analyzing fMRI time courses with Minimalist Grammars. Talk given at the First Workshop on Minimalist Parsing, MIT.

2015 Jonathan Brennan, Edward P. Stabler, Sarah E. VanWagenen, Wen-Ming Luh and John Hale. Abstract Linguistic Structure Correlates with Anterior Temporal Activity during Naturalistic Comprehension. Poster presented at Neurobiology of Language. Chicago IL

2013 Hale, J. Integrating Language and Cognitive Architecture. Panel at the AAAI Fall Symposium on Integrated Cognition, Arlington VA. with David Reitter (PSU), Richard L. Lewis (Michigan), Chung-Chieh Shan (Indiana) and Sashank Varma (UMN).

2012 Kobele, G., Lagrou, E., Engelmann, F., von der Malsburg, T., Musa, R., Gerth, S., van de Vijver, R. and Hale, J. Incremental Processing Difficulty in Cross-serial and Nested Verb Clusters. Poster presented at Architectures and Mechanisms of Language Processing. Riva del Garda, Italy.

2009 Hale, J. Heuristic search in a cognitive model of human parsing. International Conference on Parsing Technologies. Paris, France.

Invited talks in the past fifteen years

Incremental parsing in the brain
Research Group Language Cycles
Max Planck Institute for Human Cognitive and Brain Sciences March 28th 2024

Cross-linguistic computational neuroscience
UC Irvine Language Science department May 2nd 2023

Parsing in the brain
Distinguished Computational Linguistics Lecture, Rochester Institute of Technology. March 24th 2023.
Cognitive Science Department, Johns Hopkins University, January 26th 2023

Word-by-word parsing as it happens in the brain
Stony Brook Linguistics Colloquium December 2nd 2022

Cross-linguistic computational neuroscience with natural language processing tools
Academy of Aphasia, Philadelphia PA, October 24th 2022

The brain's language network in typological perspective
SfB 1102 colloquium, Saarbrücken University April 21st 2022

Grammar, Incrementality and fMRI timecourse
Cognitive Science Program, University of Connecticut February 18th 2022

Neurocomputational models of language processing: the case of reference and coreference
With Jixing Li. Leipzig Lectures on Language – Combinatorics 2021. May 26th 2021

Neural time series as data for computational linguistics
Eighth Workshop on Cognitive Aspects of Computational Language Learning and Processing, Melbourne Australia July19th 2018

Word by word neuro-computational models of human sentence processing
Ninth Annual Meeting for the Neurobiology of Language
Symposium on Computational and Quantitative Methods
Baltimore, November 9th 2017

Modeling fMRI timecourses with linguistic structure
Emory Center for Mind, Brain and Culture, February 4th 2020
Max Planck Institute for Human Cognitive and Brain Sciences, April 30th 2019
Harvard University, February 1st 2019
University of Oxford, February 19th 2018
DeepMind, December 14th 2016
Laboratory of Formal Linguistics, Paris, December 8th 2016
Indiana University, November 14th 2016
University of Georgia, October 8th 2016
Stony Brook University, April 21st 2016
University of Leipzig, January 22nd 2016
Haskins Laboratories, April 30th 2015

Modeling sentence comprehension
Keynote, International Conference on Cognitive Modeling, Penn State, August 5th 2016

Cognitive Models of Language Comprehension
Tufts, January 21st 2015
Carnegie Mellon, January 16th 2015
Johns Hopkins, January 13th 2015
University of Georgia, January 9th 2015

Architectures and Mechanisms
Keynote, AMLaP, Marseille, September 4th 2013

Problem spaces in incremental parsing
Rensselaer Polytechnic Institute, September 25th 2013

Experience as a control strategy for incremental parsing
Saarbrücken, November 5th 2012
UMass Amherst, October 26th 2012
Soar workshop, University of Michigan June 21st 2012

Entropy Reduction and Asian Languages
University of Minnesota, October 3rd 2014
National Institute for Japanese Language and Linguistics, July 29th 2014

Northwestern University, April 25th 2014
University of Michigan October 18th 2013
Laboratoire Parole et Langage, Aix-en-Provence September 25th 2012
University of Texas at Austin, May 17th 2012
Freiburg Center for Cognitive Science, May 2nd 2012
University of Geneva, April 17th 2012

Information-theoretic approaches to syntactic processing
Linguistic Society of America workshop
on information-theoretic approaches to linguistics
Boulder, Colorado July 16th 2011

What a rational parser would do
University of Michigan, April 20th 2010
University of Chicago, October 16th 2009
Yale University, September 28th 2009
New York University, September 18th 2009
Cornell Linguistics Colloquium, September 10th 2009
University of Washington, May 22nd 2009

Dependency Grammar in a Computational Model of Human Sentence Parsing
Cornell Cognitive Science Colloquium, February 6th 2009

Human-like parsing
Cornell AI seminar, November 14th 2008.

Complexity metrics for surface structure parsing

Language Technology and Cognitive Systems Int'l Research Training Group Annual Meeting	Edinburgh	2008
Cognitive Science Colloquium	MIT	2007
Linguistics Colloquium	Stanford	2006
Mathematical Linguistics Circle	UCLA	2006

Teaching

Department of Linguistics, University of Georgia

Spring 2024	LING 8580 Seminar on Formalism and Functionalism
Fall 2023	LING4886/6886 Text and Corpus Analysis
Spring 2023	LING/ARTI 4570/6570 Natural Language Processing
Fall 2022	ARTI/LING/PSYC/PHIL3550H Intro to Cognitive Science
Spring 2022	LING/ENGL4886 Text & Corpus Analysis LING 8580 Computational Linguistics Seminar
Fall 2021	LING/ARTI 4570/6570 Natural Language Processing
Spring 2021	LING 4530/6530: A Finite State Introduction to Computational Linguistics renamed version of same course
Fall 2020	LING/ENGL4886 Text & Corpus Analysis Computational Linguistics Seminar (offered under provisional course number)

Spring 2020	LING3350 Language, Mind & Brain
Fall 2019	Natural Language Processing (offered under provisional course numbers) LING/ENGL4886 Text & Corpus Analysis
Spring 2019	Linguistics 4530/6530: Finite State Linguistics A taste of computational linguistics for beginners that includes corpora, regular expressions and finite-state transducers.
Fall 2018	Linguistics 3350: Language, Mind & Brain A no-prerequisites survey of modern neurolinguistics, including machine learning approaches.

Empirical Foundations of Linguistics International Chair Programme, Paris

June 2015	LabEx EFL seminar on Automaton Theories of Human Sentence Comprehension

Linguistic Institute, University of Michigan

June 24–July 19 2013
Computational Psycholinguistics. With special guest Lars Konieczny.

Department of Linguistics, Cornell University

Spring 2017	Linguistics 4424: Computational Linguistics Linguistics 7710: Neurolinguistics seminar
Fall 2016	First-Year Writing Seminar: biological foundations of language Linguistics/Cognitive Science 2264: Language, Mind & Brain
Spring 2016	Linguistics/Cognitive Science 2264: Language, Mind & Brain Linguistics 4429: Grammar Formalisms
Fall 2015	Linguistics 4424: Computational Linguistics Linguistics 7712: Relative Clause Seminar (with John Whitman)
2014-2015	*on sabbatical at Carnegie Mellon*
Spring 2014	Linguistics 4429: Grammar Formalisms Linguistics 7710: Seminar: the neural realization of grammatical expectation
Fall 2013	Linguistics 4424: Computational Linguistics Linguistics 6604: Research Workshop
Spring 2013	Linguistics 1101: Introduction to Linguistics Linguistics 7710: Incremental Parsing Seminar
2012	*on leave at Potsdam and Oxford*
Fall 2011	Cognitive Science 1101: Introduction to Cognitive Science.
Spring 2011	Linguistics 7720: Grammar Formalisms. Linguistics 4485: Research Incubator. Yielded the `mcfgcky2` system, which grew into the Cornell Conditional Probability Calculator
Fall 2010	Cognitive Science 1101: Introduction to Cognitive Science. 400+ undergraduates

Spring 2010	Linguistics 1101: Introduction to Linguistics. undergraduates Linguistics 4476: Statistics for Linguists. mixed graduate and undergraduate
Fall 2009	Linguistics 4424: Computational Linguistics. mixed graduate and undergraduate
Spring 2009	Linguistics 1101: Introduction to Linguistics. undergraduates Linguistics 7710: Computational Psycholinguistics. graduates
Fall 2008	Linguistics 4424: Computational Linguistics. mixed graduate and undergraduate

Department of Linguistics and Languages, Michigan State University

Spring 2008	Linguistics 875: Statistics and Linguistic Applications. graduates Linguistics 892: Cognitive Science seminar. graduates
Fall 2007	Linguistics 401: Introduction to Linguistic Theory. undergraduates Linguistics/Computer Science 475: Introduction to Computational Linguistics. mixed
Spring 2007	Linguistics/Philosophy/Psychology 463: Introduction to Cognitive Science. undergraduates Linguistics 875: Computational Psycholinguistics. graduates
Fall 2006	*on leave at Stanford*
Spring 2006	Zoology 867: Nature and Practice of Cognitive Science. graduates Linguistics 875: Statistics and Linguistic Applications. graduates
Fall 2005	Linguistics/Computer Science 475: Introduction to Computational Linguistics. mixed
Spring 2005	Linguistics 875: Computational Psycholinguistics. graduates
Fall 2004	Linguistics/Computer Science 475: Introduction to Computational Linguistics. mixed
Spring 2004	Linguistics/Philosophy/Psychology 463: Introduction to Cognitive Science. undergraduates
Fall 2003	Linguistics 401: Introduction to Linguistic Theory. undergraduates

Advising

The + symbol indicates a female advisee.

Graduated

Cornell	+Marisa F. Boston	⟶Nuance Communications...Google
Cornell	+Jiwon Yun	⟶SUNY Stony Brook (tenured)
Cornell	Zhong Chen	⟶Rochester Institute of Technology (tenured)
Cornell	+Jixing Li	⟶ City University of Hong Kong (tenure-track)
Cornell	+Shohini Bhattasali	⟶University of Toronto-Scarborough (tenure-track)
UGA	+Jordan Graham (MA)	⟶data scientist at political nonprofit in Washington DC
UGA	Narinder Ghumman (MSAI)	⟶NCR corporation
UGA	+Berta Franzluebbers (MSAI)	⟶research at UGA
UGA	+Savannah Jane Williams (MSAI)	⟶applying to grad school for Fall 2024
UGA	+Shulin Zhang	on the job market now!
UGA	Michael Wolfman (MA)	tech industry

Current Graduate Students (UGA)

+Davis Dees (MSAI) racial bias in hate speech detection

Postdoctoral sponsor

Tim Hunter	⟶	University of Minnesota (tenure-track) ⟶ UCLA (tenured)
+Murielle Popa-Fabre	⟶	Paris
Luca Campanelli	⟶	University of Alabama (tenure-track)

Graduate: External Examiner

John Torr, Edinburgh University. Defended April 26$^{\text{th}}$ 2019
+Chong Zhang, SUNY Stony Brook. Defended May 5$^{\text{th}}$ 2017
+Pegah Faghiri, Université Paris Sorbonne Nouvelle – Paris 3. Defended December 9$^{\text{th}}$ 2016
Michael Shvartsman, University of Michigan. Defended August 15$^{\text{th}}$ 2014
Mattias Nilsson, Uppsala University. Defended March 10$^{\text{th}}$ 2012.

Undergraduate: academic advisor (Cornell)

Ben Reich	math/linguistics major	⟶ quant analysis job
+Julia Buffinton	CS/linguistics major	⟶ UMD Baggett Scholar
Jordan Needle	linguistics major	⟶ Ohio State
+Elana Feldman	linguistics major	⟶ Nuance Communications
+Katey Huddleston	CS/linguistics major	

Undergraduate: honors thesis advisor

James H. West	UGA Dept of Linguistics 2020 Undergraduate Research Award recipient ⟶ University of Washington Comp Ling Masters Program	
Adam Mahar	Cornell Presidential Research Scholar	summa cum laude 2016
+Jaclyn Jeffrey-Wilensky	Cornell Presidential Research Scholar	⟶ edu tech company
Mohan Zhang	Cornell Computer Science major	magna cum laude in 2009

Undergraduate: in other capacities

Ryan Musa	Created a database of bilingual Dutch/German stimuli as well as a German acceptability study. ⟶ UIUC....Google
Jeff Shaw	MSU College of Arts & Letters Undergraduate Research Initiative. Pursued means-ends analysis for parsing English and Japanese.
Andrew Cooper	MSU Honors College Research Assistant. Gave talk at the Disfluency in Spontaneous Speech in Aix-en-Provence, France.
+Kendell Pawelec	MSU Honors College Research Assistant. Created a dependency graph visualization tool.

College/University Service

University of Georgia

2023	Institute for Artificial Intelligence Planning Group, UGA (elected member)

2021	Experimental Linguistics Search Committee Chair, Department of Linguistics
2021–	James L. Carmon Award Committee
2020	Post Tenure Review Committee for Dr. Vera Lee-Schoenfeld
2020–	Graduate Committee, Department of Linguistics
2019–2020	Search Committee, Computer Science Department
2018–2020	Curriculum Committee, Department of Linguistics
2018–	Curriculum Committee, Cognitive Science Program
2018	Tenure Committee, Department of Linguistics

Cornell University

2016–2018	Steering Committee, Cognitive Science Program
2015	Ad Hoc tenure committee, HD and Psychology.
2011	Phonetics Search Committee (selected & recruited Sam Tilsen)
2010	Read freshman applications with Assistant Dean Ken Gabard.
2009	Revamping LING1101 Linguistics Department Committee
2008-2009	Phonetics Search Committee (search postponed)

Professional Activities

Journal Editing

Editorial Board, *Cognition*

Editorial Board, *Linguistic Issues in Language Technology*

Editorial Board, *Language and Linguistics Compass*

Associate Editor of *Topics in Cognitive Science*. With David Reitter, produced an issue of this based on contributions from the CMCL workshops (11 papers). `doi:10.1111/tops.12038`

Organizing Meetings

Founder, ACL Cognitive Modeling and Computational Linguistics workshop (CMCL).

Program Committee, Cognitive Science Society Annual Meeting 2014, 2016, 2017

Organizer, Language and Integrated Cognition panel at AAAI Fall Symposium, November 15^{th}–17^{th} 2013

Memberships

Association for Computational Linguistics (ACL)

Cognitive Science Society

Grant proposal reviewing

National Science Foundation 2004—

Oak Ridge Associated Universities 2019

Article reviewing

Cognitive Science 2003—

Cognition 2007—

Language 2023—

Journal of Memory and Language 2023—

Neurobiology of Language 2020—

Journal of Neuroscience 2022—

Journal of Language, Logic and Information 2009—

Nature Scientific Data 2023—

Journal of Cognitive Neuroscience 2023—

Cortex 2024—

Nature Computational Brain and Behavior 2024—

Conference submission reviewing

Association for Computational Linguistics 2003—

International Conference on Cognitive Modeling 2007—

CUNY Human sentence processing conference 2003—

Formal Grammar 2001—

Annual Meeting of the Cognitive Science Society 2005—

Incontro di Grammatica Generativa 2016—

Architectures and Mechanisms of Language Processing 2023—