

David R. Mortensen

Language Technologies Institute · School of Computer Science · Carnegie Mellon University
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Education

- PhD in Linguistics. 2006. University of California, Berkeley. Dissertation: *Logical and Substantive Scales in Phonology*, supervised by Sharon Inkelas and James A. Matisoff (co-chairs), Larry Hyman and Johanna Nichols (committee members).
- LSA Summer Institute. 2006. Massachusetts Institute of Technology.
- MA in Linguistics. 2003. University of California, Berkeley.
- BA in English Literature (Departmental Honors; minors in Linguistics and Psychology). 2000. Utah State University. Honors Thesis: *Sinitic Loanwords in Two Hmong Dialects of Southeast Asia*.

Professional Appointments

2023–	Assistant Research Professor, Language Technologies Institute, Carnegie Mellon University
2018–2023	Systems Scientist, Language Technologies Institute, Carnegie Mellon University
2015–2018	Senior Researcher, Language Technologies Institute, Carnegie Mellon University
2014–2014	Visiting Researcher, Language Technologies Institute, Carnegie Mellon University
2006–2014	Assistant Professor, Department of Linguistics, University of Pittsburgh

Publications

Journal Articles

Brendon Boldt and David R. Mortensen. 2024. A review of the applications of deep learning-based emergent communication. *Transactions on Machine Learning Research*.

David R Mortensen. 2023. Kuki-chin phonology: An overview. *Himalayan Linguistics*, 22(1).

Clayton Marr and David Mortensen. 2022. Large-scale computerized forward reconstruction yields new perspectives in french diachronic phonology. *Diachronica*.

- David R. Mortensen and Jordan Picone. 2021. East Tusom: A phonetic and phonological sketch of a largely undocumented tangkhulic language. *Linguistics of the Tibeto-Burman Area*, 44(2):168–196.
- David Francis, Ella Rabinovich, Farhan Samir, David Mortensen, and Suzanne Stevenson. 2021. Quantifying Cognitive Factors in Lexical Decline. *Transactions of the Association for Computational Linguistics*, 9:1529–1545.
- Patrick Littell, Tian Tian, Ruochen Xu, Zaid Sheikh, David Mortensen, Lori Levin, Francis Tyers, Hiroaki Hayashi, Graham Horwood, Steve Sloto, Emily Tagtow, Alan Black, Yiming Yang, Teruko Mitamura, and Eduard Hovy. 2018b. The ARIEL-CMU situation frame detection pipeline for LoReHLT16: a model translation approach. *Machine Translation*, 32(1–2):105–126.
- David R. Mortensen. 2013b. Tonally conditioned vowel raising in Shuijingping Mang. *Journal of East Asian Linguistics*, 22(3):189–216.
- David R. Mortensen. 2012a. The emergence of obstruents after high vowels. *Diachronica*, 29(4):434–470.
- David R. Mortensen and James A. Miller. 2013. A reconstruction of Proto-Tangkhulic rhymes. *Linguistics of the Tibeto-Burman Area*, 36(1):1–32.
- Mary Lou Vercellotti and David R. Mortensen. 2012. A classification of compounding in American Sign Language: an evaluation of the Bisetto and Scalise framework. *Morphology*, 22(4):545–579.
- David R. Mortensen and Jennifer Keogh. 2012. Sorbung, an undescribed language of Manipur: Its phonology and place in Tibeto-Burman. *Journal of the Southeast Asian Linguistics Society*, 4(1):62–114.

Refereed Conference Papers

- Nathaniel Robinson, Perez Ogayo, David R. Mortensen, and Graham Neubig. 2023a. ChatGPT MT: Competitive for high- (but not low-) resource languages. In *Proceedings of the Eighth Conference on Machine Translation*, pages 392–418, Singapore. Association for Computational Linguistics.
- Yanlin Feng, Adithya Pratapa, and David Mortensen. 2023. Calibrated seq2seq models for efficient and generalizable ultra-fine entity typing. In *Findings of the Association for Computational Linguistics: EMNLP 2023*, pages 15550–15560, Singapore. Association for Computational Linguistics.
- Leonie Weissweiler, Valentin Hofmann, Anjali Kantharuban, Anna Cai, Ritam Dutt, Amey Hengle, Anubha Kabra, Atharva Kulkarni, Abhishek Vijayakumar, Haofei Yu, Hinrich Schuetze, Kemal Oflazer, and David Mortensen. 2023b. Counting the bugs in ChatGPT’s wugs: A multilingual investigation into the morphological capabilities of a large language model. In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*, pages 6508–6524, Singapore. Association for Computational Linguistics.
- Orevaoghene Ahia, Sachin Kumar, Hila Gonen, Jungo Kasai, David Mortensen, Noah Smith, and Yulia Tsvetkov. 2023. Do all languages cost the same? tokenization in the era of commercial language models. In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*, pages 9904–9923, Singapore. Association for Computational Linguistics.

- Georgios Karakasidis, Nathaniel Robinson, Yaroslav Getman, Atieno Ogayo, Ragheb Al-Ghezi, Ananya Ayasi, Shinji Watanabe, David R Mortensen, and Mikko Kurimo. 2023. Multilingual tts accent impressions for accented asr. In *International Conference on Text, Speech, and Dialogue*, pages 317–327. Springer.
- Young Min Kim, Calvin Chang, Chenxuan Cui, and David R. Mortensen. 2023. Transformed proto-form reconstruction. In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*, pages 24–38, Toronto, Canada. Association for Computational Linguistics.
- Kalvin Chang, Chenxuan Cui, Youngmin Kim, and David R. Mortensen. 2022. Wikihan: A new comparative dataset for Chinese languages. In *COLING 2022*.
- Nathaniel Romney Robinson, Perez Ogayo, Swetha R. Gangu, David R. Mortensen, and Shinji Watanabe. 2022b. When is TTS augmentation through a pivot language useful? In *Interspeech 2022*.
- Xinjian Li, Florian Metze, David R. Mortensen, Alan W. Black, and Shinji Watanabe. 2022c. Speech recognition for around 2000 languages without audio. In *Interspeech 2022*.
- David R. Mortensen, Xinyu Zhang, Chenxuan Cui, and Katherine J. Zhang. 2022. A Hmong corpus with elaborate expression annotations. In *Proceedings of the Thirteenth International Conference on Language Resources and Evaluation (LREC 2022)*.
- Xinjian Li, Florian Metze, David R. Mortensen, Alan W. Black, and Shinji Watanabe. 2022b. Phone inventories and recognition for every language. In *Proceedings of the Thirteenth International Conference on Language Resources and Evaluation (LREC 2022)*.
- Chenxuan Cui, Katherine Zhang, and David Mortensen. 2022. Learning the ordering of coordinate compounds and elaborate expressions in Hmong, Lahu, and Chinese. In *Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*, pages 3656–3669, Seattle, United States. Association for Computational Linguistics.
- Xinjian Li, Florian Metze, David Mortensen, Shinji Watanabe, and Alan Black. 2022a. Zero-shot learning for grapheme to phoneme conversion with language ensemble. In *Findings of the Association for Computational Linguistics: ACL 2022*, pages 2106–2115, Dublin, Ireland. Association for Computational Linguistics.
- David R. Mortensen, Jordan Picone, Xinjian Li, and Kathleen Siminyu. 2021. Tusom2021: A Phonetically Transcribed Speech Dataset from an Endangered Language for Universal Phone Recognition Experiments. In *Proc. Interspeech 2021*, pages 3660–3664.
- Adithya Pratapa, Antonios Anastasopoulos, Shruti Rijhwani, Aditi Chaudhary, David R. Mortensen, Graham Neubig, and Yulia Tsvetkov. 2021. Evaluating the morphosyntactic well-formedness of generated texts. In *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing*, pages 7131–7150, Online and Punta Cana, Dominican Republic. Association for Computational Linguistics.
- Kathleen Siminyu, Xinjian Li, Antonios Anastasopoulos, David R. Mortensen, Michael R. Marlo, and Graham Neubig. 2021. Phoneme Recognition Through Fine Tuning of Phonetic Representations: A Case Study on Luhya Language Varieties. In *Proc. Interspeech 2021*, pages 271–275.
- Brian Yan, Siddharth Dalmia, David R. Mortensen, Florian Metze, and Shinji Watanabe. 2021. Differentiable Allophone Graphs for Language-Universal Speech Recognition. In *Proc. Interspeech*

2021, pages 2471–2475.

- Xinjian Li, David R Mortensen, Florian Metze, and Alan W. Black. 2021. Multilingual phonetic dataset for low resource speech recognition. In *ICASSP 2021*.
- Jimin Sun, Hwiyeen Ahn, Chan Young Park, Yulia Tsvetkov, and David R. Mortensen. 2021. Ranking transfer languages with pragmatically-motivated features for multilingual sentiment analysis. In *EACL 2021*.
- Aditi Chaudhary, Antonios Anastasopoulos, Adithya Pratapa, David R. Mortensen, Zaid Sheikh, Yulia Tsvetkov, and Graham Neubig. 2020. Automatic extraction of rules governing morphological agreement. In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing*.
- Shahan Ali Memon, Aman Tyagi, David R. Mortensen, and Kathleen M Carley. 2020. Characterizing sociolinguistic variation in the competing vaccination communities. In *Proceedings of the International Conference SBP-BRiMS 2020*, Washington DC. Springer.
- Maria Ryskina, Ella Rabinovich, Taylor Berg-Kirkpatrick, David R. Mortensen, and Yulia Tsvetkov. 2020. Where new words are born: Distributional semantic analysis of neologisms and their semantic neighborhoods. In *Proceedings of the Society for Computation in Linguistics*, volume 3.
- David R. Mortensen, Xinjian Li, Patrick Littell, Alexis Michaud, Shruti Rijhwani, Antonios Anastasopoulos, Alan W. Black, Florian Metze, and Graham Neubig. 2020. AlloVera: A multilingual allophone database. In *Proceedings of the Twelfth International Conference on Language Resources and Evaluation (LREC 2020)*.
- Xinjian Li, Siddharth Dalmia, Juncheng Li, Matthew Lee, Patrick Littell, Jiali Yao, Antonios Anastasopoulos, David R. Mortensen, Graham Neubig, Alan W Black, and Florian Metze. 2020a. Universal phone recognition with a multilingual allophone system. In *ICASSP 2020*.
- Xinjian Li, Siddharth Dalmia, David R. Mortensen, Juncheng Li, Alan Black, and Florian Metze. 2020b. Towards zero-shot learning for automatic phonemic transcription. In *Proceedings of the Thirty-Fourth AAAI Conference on Artificial Intelligence*.
- Aditi Chaudhary, Chunting Zhou, Lori Levin, Graham Neubig, David R. Mortensen, and Jaime Carbonell. 2018. Adapting word embeddings to new languages with morphological and phonological subword representations. In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing*, pages 3285–3295, Brussels, Belgium. Association for Computational Linguistics.
- David R. Mortensen, Siddharth Dalmia, and Patrick Littell. 2018. Epitran: Precision G2P for many languages. In *Proceedings of the 11th Language Resources and Evaluation Conference*, Miyazaki, Japan. European Language Resource Association.
- Patrick Littell, Tom McCoy, Na-Rae Han, Shruti Rijhwani, Zaid Sheikh, David Mortensen, Teruko Mitamura, and Lori Levin. 2018a. Parser combinators for Tigrinya and Oromo morphology. In *Proceedings of the 11th Language Resources and Evaluation Conference*, Miyazaki, Japan. European Language Resource Association.
- Patrick Littell, David R. Mortensen, Ke Lin, Katherine Kairis, Carlisle Turner, and Lori Levin. 2017. URIEL and lang2vec: Representing languages as typological, geographical, and phylogenetic vectors. In *Proceedings of the 15th Conference of the European Chapter of the Association for*

Computational Linguistics: Volume 2, Short Papers, pages 8–14, Valencia, Spain. Association for Computational Linguistics.

Patrick Littell, David R. Mortensen, Kartik Goyal, Chris Dyer, and Lori Levin. 2016b. Bridge-language capitalization inference in western Iranian: Sorani, Kurmanji, zazaki, and Tajik. In *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC 2016)*, pages 3318–3324, Portorož, Slovenia. European Language Resources Association (ELRA).

Yulia Tsvetkov, Sunayana Sitaram, Manaal Faruqui, Guillaume Lample, Patrick Littell, David Mortensen, Alan W Black, Lori Levin, and Chris Dyer. 2016. Polyglot neural language models: A case study in cross-lingual phonetic representation learning. In *Proceedings of the 2016 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*, pages 1357–1366, San Diego, California. Association for Computational Linguistics.

Akash Bharadwaj, David Mortensen, Chris Dyer, and Jaime Carbonell. 2016. Phonologically aware neural model for named entity recognition in low resource transfer settings. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing*, pages 1462–1472, Austin, Texas. Association for Computational Linguistics.

Patrick Littell, Kartik Goyal, David R. Mortensen, Alexa Little, Chris Dyer, and Lori Levin. 2016a. Named entity recognition for linguistic rapid response in low-resource languages: Sorani Kurdish and Tajik. In *Proceedings of COLING 2016, the 26th International Conference on Computational Linguistics: Technical Papers*, pages 998–1006, Osaka, Japan. The COLING 2016 Organizing Committee.

David R. Mortensen, Patrick Littell, Akash Bharadwaj, Kartik Goyal, Chris Dyer, and Lori Levin. 2016. PanPhon: A resource for mapping IPA segments to articulatory feature vectors. In *Proceedings of COLING 2016, the 26th International Conference on Computational Linguistics: Technical Papers*, pages 3475–3484, Osaka, Japan. The COLING 2016 Organizing Committee.

Refereed Workshop Papers

Kalvin Chang, Nathaniel Robinson, Anna Cai, Ting Chen, Annie Zhang, and David Mortensen. 2023. Automating sound change prediction for phylogenetic inference: A Tukanooan case study. In *Proceedings of the 4th Workshop on Computational Approaches to Historical Language Change*, pages 129–142, Singapore. Association for Computational Linguistics,

Nathaniel Romney Robinson, Matthew Dean Stutzman, Stephen D. Richardson, and David R Mortensen. 2023b. African substrates rather than European lexifiers to augment African-diaspora creole translation. In *4th Workshop on African Natural Language Processing*,

Leonie Weissweiler, Taiqi He, Naoki Otani, David R. Mortensen, Lori Levin, and Hinrich Schütze. 2023a. Construction grammar provides unique insight into neural language models. In *Proceedings of the First International Workshop on Construction Grammars and NLP (CxGs+NLP, GURT/SyntaxFest 2023)*, pages 85–95, Washington, D.C. Association for Computational Linguistics.

David R. Mortensen, Ela Gulsen, Taiqi He, Nathaniel Robinson, Jonathan Amith, Lindia Tjuaatja, and Lori Levin. 2023. Generalized glossing guidelines: An explicit, human- and machine-readable,

item-and-process convention for morphological annotation. In *Proceedings of the 20th SIGMORPHON workshop on Computational Research in Phonetics, Phonology, and Morphology*, pages 58–67, Toronto, Canada. Association for Computational Linguistics.

Taiqi He, Lindia Tjuatja, Nathaniel Robinson, Shinji Watanabe, David R. Mortensen, Graham Neubig, and Lori Levin. 2023. SigMoreFun submission to the SIGMORPHON shared task on interlinear glossing. In *Proceedings of the 20th SIGMORPHON workshop on Computational Research in Phonetics, Phonology, and Morphology*, pages 209–216, Toronto, Canada. Association for Computational Linguistics.

Nathaniel Robinson, Cameron Hogan, Nancy Fulda, and David R. Mortensen. 2022a. Data-adaptive transfer learning for translation: A case study in Haitian and Jamaican. In *Proceedings of the Fifth Workshop on Technologies for Machine Translation of Low-Resource Languages (LoResMT 2022)*, pages 35–42, Gyeongju, Republic of Korea. Association for Computational Linguistics.

Clayton Marr and David R. Mortensen. 2020. Computerized forward reconstruction for analysis in diachronic phonology, and Latin to French reflex prediction. In *1st Workshop on Language Technologies for Historical and Ancient Languages (LT4HALA)*.

Aditi Chaudhary, Elizabeth Salesky, Gayatri Bhat, David R. Mortensen, Jaime Carbonell, and Yulia Tsvetkov. 2019. CMU-01 at the SIGMORPHON 2019 shared task on crosslinguality and context in morphology. In *Proceedings of the 16th Workshop on Computational Research in Phonetics, Phonology, and Morphology*, pages 57–70, Florence, Italy. Association for Computational Linguistics.

Other Academic Publications

David R. Mortensen. 2019. Hmong (Mong Leng). In Alice Vittrant and Justin Watkins, editors, *The Mainland Southeast Asia Linguistic Area*. De Gruyter Mouton, Berlin, Boston.

David R. Mortensen. 2017a. Hmong-Mien languages. In Mark Aronoff, editor, *Oxford Research Encyclopedia of Linguistics*. Oxford University Press, New York.

David R. Mortensen. 2017b. Hmong-Mien languages. In Mark Aronoff, editor, *Oxford Bibliographies in Linguistics*. Oxford University Press, New York.

David R. Mortensen. 2013a. Lexical prefixes and Tibeto-Burman laryngeal contrasts. In *Proceedings of the Thirty-Seventh Annual Meeting of the Berkeley Linguistics Society (BLS 37)*, page 292–303.

David R. Mortensen. 2004. The emergence of dorsal stops after high vowels in Huishu. In *Proceedings of the Thirtieth Annual Meeting of the Berkeley Linguistics Society (BLS 30)*, pages 292–303.

David R. Mortensen. 2003. Review of *Baheng Yu Yanjiu* [research on the Pa-Hng language] by Mao Zongwu and Li Yunbing. *Linguistics of the Tibeto-Burman Area*, 26(1):123–131.

David R. Mortensen. 2002. Review of *Les langue Hmong-Mjen: phonologie historique* by Barbara Niederer. *Linguistics of the Tibeto-Burman Area*, 25(2):243–245.

Data Resources

Mortensen, David R. 2014/2019/2022. SCH Corpus. 15 million word unlabeled Hmong-language corpus derived from postings to the `soc.culture.hmong` Usenet group.

http://www.davidmortensen.org/corpora/sch_corpus-2.zip

Software

- David R. Mortensen. 2022. Wfst4str. Rust/Python library for working with strings using weighted finite state transducers.
- David R. Mortensen. 2018b. MStem. Python multilingual morphological stemming framework and stemmer collection.
- David R. Mortensen. 2018a. Epitran. Precision orthography-to-IPA conversion for 65 languages.
- David R. Mortensen. 2016. PanPhon. Articulatory feature extractor and library.
- David R. Mortensen. 2012b. NetSPE. A web-based application for exploring rule-based analyses of phonological data.
- David R. Mortensen. 2011b. Web Comparator. A web-based application for organizing and analyzing comparative lexical databases. Used in the production of “Emergence of Obstruents” and “Proto-Tangkhulic Rhymes”.
- David R. Mortensen. 2011a. HsSPE. Haskell library implementing SPE-style rule-based phonology.

Selected Talks

- David R. Mortensen. 2023. “Extension is All You Need (but Sometimes Good Intentions Help Too,” invited talk, LMU Munich, August 14, 2023.
- David R. Mortensen. 2022. “How Cognitive Biases Do (and Do Not) Shape Lexicons,” invited talk, ETH Zürich, July 19, 2022.
- David R. Mortensen. 2019. “Hmong Elaborate Expressions; Constructional and Distributional-Semantic Perspectives.” colloquium talk, Carnegie Mellon University, April 19, 2019.
- David R. Mortensen. 2019. “Hmong Elaborate Expressions; Constructional and Distributional-Semantic Perspectives.” invited talk, University of Minnesota, Minneapolis, March 29, 2019.
- David R. Mortensen. 2010. “Does Hmong allow noun incorporation? A field study,” colloquium talk, University of Pittsburgh, November 19.
- David R. Mortensen. 2010. “Does Hmong allow Noun Incorporation?” invited talk, Wayne State University, Detroit, October 1.
- David R. Mortensen. 2010. “Shuijingping Hmong and the problem of tone-vowel interactions,” invited talk, the University at Buffalo, February 12.
- David R. Mortensen. 2009. “The Problem of Tone-Vowel Interactions,” invited talk, Chulalongkorn University, Bangkok, November 10.
- David R. Mortensen. 2008. “Optimal-Constructional Morphology, or how, when our lexicon gives us lemons, we make lemonade,” colloquium talk, University of Pittsburgh, November 25.
- David R. Mortensen. 2006. “A Marked Structure is Born: The Emergence of Obstruents and the Motivations for Sound Change,” invited talk, University of Pennsylvania, Philadelphia, February 16.

David R. Mortensen. 2005. “The Phonology of Coordinate Constructions,” invited talk, Cornell University, Ithaca, March 3.

David R. Mortensen. 2005. “Abstract Scales in Phonology,” invited talk, Stanford Phonology Workshop, Stanford February 24.

David R. Mortensen. 2005. “Abstract Scales in Phonology,” invited talk, University of Chicago, Chicago, February 3.

David R. Mortensen. 2004. “Scalar Competition and Variables in Hmong Anaphora,” invited talk, Stanford Syntax Workshop, Stanford, April 27, 2004. David R. Mortensen. 2003. “The State of Hmong Linguistics,” invited talk, Hmong Studies Symposium, Concordia University (St. Paul), October 25, 2003.

Teaching

North American Summer School in Logic, Language, and Information (NASSLLI 2018)

Low Resource Techniques in NLP	Summer 2018
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Carnegie Mellon University

11-624/11-724: Human Language for AI	F 2018, S 2019, F 2019, F 2020, F 2021, F2022
11-411/11-611: Natural Language Processing	S 2017, F 2017, S 2018, F 2018, S 2019, F 2019, S 2020, F 2020, S 2021, F 2021, S 2022, F2022, S2022
11-421/11-721: Grammars and Lexicons	F 2017, F 2018

University of Pittsburgh

Ling 1441/2441: Field Methods	S 2007, 2008, 2010, 2011, F 2012, S 2012, S 2014
Ling 1578: Phonetics and Phonemics	F 2008, 2010, 2011
Ling 1579: Phonology	S 2007, 2010, 2013
Ling 1773: Morphology	F 2006
Ling 1951: Languages of the World	F 2007, 2008, 2011, 2013
Ling 2578: Phonetics and Phonemics	F 2006
Ling 2579: Phonology	S 2008, 2010, 2012, 2013, 2014
Ling 2580: Topics in Phonological Theory	S 2008
Ling 2773: Morphology	F 2007, 2012, 2013
Ling 3773: Advanced Morphology	S 2011

Advising

PhD Students

Boldt, Brendon. In progress.

Wang Ping. 2015. Phonological prominence and its interaction with tone in Chinese dialects. PhD dissertation, University of Pittsburgh. (Co-chair: Shelome Gooden)

PhD Dissertation Committees

Medina, Salvador. In progress.

Li, Xinjian. In progress.

Ryskina, Maria (2022). Learning Computational Models of Non-Standard Language.

Chaudhary, Aditi (2022). Automatic Extraction and Application of Language Descriptions for Under-Resourced Languages.

Gangal, Varun (2022). A Suite of Low-Data Generation Settings Necessitating Interventions on End-to-End NLG Model.

Liu, Jingzhou (2022). Improving Text Summarization with Limited Resources.

Marcos, Nausica (in progress). Instruction and Learning of Derivational Morphology by English and German-speaking Learners of Spanish as a Foreign Language. PhD dissertation. (Chair: Alan Juffs).

Friedline, Benjamin. 2011. Morphological Challenges in the Second Language Acquisition of Derivational Morphology. PhD dissertation. (Chair: Alan Juffs).

Rodriguez, Guillermo. 2008. Second language sentence processing: Is it fundamentally different? PhD dissertation. (Chair: Alan Juffs)

Eberhardt, Maeve. 2009. Identities and Local Speech in Pittsburgh: A Study of Regional African American English. (Chair: Scott Kiesling).

Masters Students

Chang, Calvin. 2023. Amazon.

Robinson, Nathaniel R. 2023. Johns Hopkins University (PhD program).

Feng, Yanlin. 2023. Megagon Labs.

Zhang, Xinyu. 2022.

Park, Jong Hyuk. 2020. Learning Internal Structure of Words with Factored Generative Models. MA Thesis. (Chair).

Jie, Cui. 2010. Variation in Nanchang Gan. MA Thesis. (Chair).

Draucker, Fawn. 2010. Revisiting the Maori English Vowel Space: Exploring variation in /I/ and /u/ vowel production in Auckland, New Zealand. MA thesis. (Chair).

Littell, Patrick. 2008. "Body part incorporation." MA long paper. (Co-chair with Pascual Masullo).

Masters Thesis Committees

- Fan, Ya-wen. 2013. Gender Influences on the Use of Mandarin Varieties in Taiwan. MA Thesis. (Chair: Scott Kiesling).
- Friedline, Benjamin. 2008. A Linguistic Profile of Power and Identity in Massively Multiplayer Online Role-Playing Games. (Chair: Scott Kiesling)
- Collister, Lauren B.. 2008. Virtual discourse structure: an analysis of conversation in World of Warcraft. MA thesis. (Chair: Scott Kiesling)
- McCarthy, Natalie. 2007. The Northern Cities Shift and local identity in a suburban Cleveland group. MA thesis. (Chair: Scott Kiesling).

Comprehensive/Qualifying Paper Committees

- Tse, Holman. 2013. "The emergence of retroflexion in Somali Bantu Kizigua: Internal motivation or contact-induced change?" (Chair)
- Wang, Ping. 2012. "The duration of medial glides in first and second language speakers of Mandarin." (Chair)
- Olsen, Michael. 2012. "The Effect of Animacy and Pronominal Object Clitic Distinction in L2 Spanish." (Chair: Alan Juffs).
- Marcos, Nausica. "An Analysis of Spanish Verb-Noun Compounds as Input for Derivation." (Chair: Alan Juffs).
- Wang, Ping. 2012. "An OT Account of Major Patterns of Chinese Coda Evolution." (Chair).
- Vercellotti, Mary Lou. 2011. "A classification of compounding in American Sign Language and an evaluation of the Bissetto and Scalise Framework." Comprehensive paper. (Co-chair with Claude Mauk).
- Luk, Pei-Su. 2011. "Investigating the transitive and intransitive constructions in English, Chinese, and Japanese from a functional perspective." (Chair: Yasuhiro Shirai).
- Collister, Lauren B.. 2010. "Meaning Variation of the Iconic Deictics ~ and <- in an Online Community." (Co-chair with Scott Kiesling).
- Lifrieri, Vernica. 2009. "A puzzle for effort in phonetically-grounded OT: codas in North-Central Peninsular Spanish." Comprehensive paper. (Co-chair with Shelome Gooden).
- Chan, Derek Ho-Leung. 2009. "The tonal morphology of Cantonese attenuative reduplication." Comprehensive paper. (Co-chair with Shelome Gooden).
- Martelle, Wendy. 2007. "The evolution of aspect: a case study in Russian." Comprehensive paper. (Chair: Yasuhiro Shirai)
- Pharmakis, Patricia. 2007. "A formal account of Modern Greek inflection within the framework of Distributed Morphology." Comprehensive paper. (Chair: Alan Juffs)
- Brubaker, Brian. 2007. "Implications of labial-tone correspondence in L2 Mandarin Chinese." Comprehensive paper. (Co-chair with Shelome Gooden).

Fellowships and Awards

Fellowships

- 2006. LSA Summer Institute Fellowship.
- 2004. Graduate Division Summer Grant, University of California, Berkeley.
- 2001. Institute for East Asian Studies Fellowship, University of California, Berkeley.

Research Grants and Contracts

- 2023. KAIROS+. DARPA contract. Key Personnel.
- Collaborative Research: From Acoustic Signal to Morphosyntactic Analysis in One End-to-End Neural System. NSF CISE. \$1,195,801.
- Automatic Speech Recognition and Transfer Learning: Large Corpus Production of Five Eastern Nahuatl Languages (east2720) with end-to-end technology. NSF DEL. \$240,000.
- 2020. KAIROS. DARPA contract. Key Personnel. \$11,350,578.
- 2010. University of Pittsburgh Arts and Sciences Faculty Grants Committee Summer Research Grant, Type I.

Professional Service

Editorial Boards

- Journal of the Southeast Asian Linguistics Society
- ACL Rolling Review (Action Editor)
- IEEE/ACM Transactions on Audio, Speech, and Language Processing (Associate Editor)

Metareviewer

- ICASSP

Reviewer

- **Conferences:** ACL (Association for Computational Linguistics), COLING, EMNLP (Empirical Methods in Natural Language Processing), LREC (Language Resource and Evaluation Conference), NAACL (North American Chapter of the Association of Computational Linguistics)
- **Journals:** Computational Linguistics, Himalayan Linguistics, Diachronica, Language and Intercultural Communication, Lingua, Linguistics of the Tibeto-Burman Area, Natural Language and Linguistic Theory, Phonology, Journal of the International Phonetic Association, Digital Scholarship in the Humanities, Frontiers in Artificial Intelligence, Journal of Language Evolution, Nature

Departmental Service

- Hiring Committee (chair), Language Technologies Institute, Carnegie Mellon University (2023–2024)
- PhD/MLT admissions committee, Language Technologies Institute, Carnegie Mellon University, (2022–2023).
- Public relations chair, Language Technologies Institute, Carnegie Mellon University, (2021–2022).
- MIIS admissions committee, Language Technologies Institute, Carnegie Mellon University, (2021–2022).
- New student orientation (IC) organizer, Language Technologies Institute, Carnegie Mellon University, (2021).
- MLT/PhD admissions committee, Language Technologists Institute, Carnegie Mellon University. (2019–2021).
- Faculty Senator, Language Technologies Institute, Carnegie Mellon University (Summer 2020–Spring 2021).
- Curriculum committee, Language Technologies Institute, Carnegie Mellon University. (Fall 2018–Spring 2019)
- MIIS admissions committee, Language Technologies Institute, Carnegie Mellon University. (2018–2019)
- Undergraduate adviser, Department of Linguistics, University of Pittsburgh. (Spring 2008–Spring 2014).
- Colloquium committee, Department of Linguistics, University of Pittsburgh (Fall 2007–2009).
- Curriculum committee, Department of Linguistics, University of Pittsburgh (2007)

Other Professional Activities

- Area Chair, Linguistic Theories, Psycholinguistics, and Cognitive Modeling, ACL 2023.
- Area Chair, Phonology, Morphology, and Word Segmentation, ACL 2020.
- Area Chair, Phonology, Morphology, and Word Segmentation, EMNLP 2020.
- Program committee, North American Computational Linguistics Olympiad, (2008–2010, 2013–2020).
- Organizing committee, Twenty-Ninth and Thirtieth Annual Meetings of the Berkeley Linguistics Society (2002 and 2003).
- Special session organizer, Twenty-Eighth Annual Meeting of the Berkeley Linguistics Society. 2001. Co-organized with Patrick Chew.