Zoey (Ying) Liu

CONTACT INFORMATION	Department of Linguistics 261 Kerr Hall University of California, Davis One Shields Avenue Davis, CA 95616	*Email:* yiliu@ucdavis.edu *Phone:* +1 (818)486-3022 *Website:* https://zoeyliu18.github.io

RESEARCH INTERESTS

Computational linguistics; language typology; language documentation; language processing.

EDUCATION

University of California, Davis, Davis, CA USA

Ph.D., Linguistics   2016 - 2020

Dissertation: Data-driven Crosslinguistic Modeling of Constituent Ordering Preferences

Dissertation committee: Kenji Sagae (chair), John A. Hawkins, Emily Morgan

M.A., Linguistics   2014 - 2016

Thesis: Linguistic Fingerprint: A Computational Investigation of Authorship Attribution for Short Text Documents

Advisor: Dr. Raúl Aranovich

Nankai University, Tianjin, PRC

B.A., Translation   2010 - 2014

OTHER EDUCATION **LSA Linguistic Summer Institute**
University of California, Davis   2019 University of Chicago   2015

SUBMITTED

Zoey Liu. A Multifactorial Approach to Crosslinguistic Constituent Orderings. Abstract submission to *Linguistic Vanguard*.

Zoey Liu. The Crosslinguistic Relationship between Ordering Flexibility and Dependency Length Minimization: A Data-Driven Approach. Paper submission to *The Society for Computation in Linguistics (SCiL) 2021*.

Zoey Liu and Emily Morgan. Frequency-dependent Regularization in Syntactic Constructions. Abstract submission to *The Society for Computation in Linguistics (SCiL) 2021*.

Alex Kramer and **Zoey Liu**. A Data-driven Approach to Crosslinguistic Structural Biases. Abstract submission to *The Society for Computation in Linguistics (SCiL) 2021*.

William Dyer, Richard Futrell, **Zoey Liu** and Gregory Scontras. Modeling cross-linguistic adjective order with information gain. Abstract submission to *The Society for Computation in Linguistics (SCiL) 2021*.

JOURNAL ARTICLES **Zoey Liu**. (in press). Mixed Evidence for Crosslinguistic Dependency Length Minimization. *STUF-Language Typology and Universals*.

2018. Santiago Barreda and **Zoey Liu**. Apparent-talker height is influenced by Mandarin lexical tone. *The Journal of the Acoustical Society of America, EL*.

Peer-Reviewed Proceeding Papers	2020. Mingming Sun, Wenyue Hua, **Zoey Liu**, Xin Wang, Kangjie Zheng and Ping Li. A Predicate-Function-Argument Annotation of Natural Language for Open-Domain Information Expression. In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*
	2020. **Zoey Liu** and Emily Morgan. Frequency-dependent Regularization in Constituent Ordering Preferences. In *Proceedings of the 42nd Annual Conference of the Cognitive Science Society*.
	2019. **Zoey Liu**. A Comparative Corpus Analysis of PP Ordering in English and Chinese. In *Proceedings of the First Workshop on Quantitative Syntax (Quasy, SyntaxFest 2019)*.
	2018. Justin Spence, **Zoey Liu**, Kayla Palakurthy, and Tyler Lee-Wynant. Syntactic Annotation of a Hupa Text Corpus. In Proceedings of *Working Papers in Athabaskan Languages: Alaska Native Language Center Working Papers*.
Peer-Reviewed Extended abstracts	2019. **Zoey Liu**. Quantifying structural and lexical constraints in PP ordering typology. In *Proceedings of the Society for Computation in Linguistics (SCiL) 2019* (extended abstract).
	2018. **Zoey Liu** and Kenji Sagae. Dependency length minimization and lexical frequency in prepositional phrase ordering in English. In *Proceedings of the Society for Computation in Linguistics (SCiL) 2018* (extended abstract).
Conference Presentations	2020. **Zoey Liu**. The relationship between word order flexibility and dependency length minimization. Presentation at *53rd Annual Meeting of the Societas Linguistica Europaea*, Bucharest, August 26-29.
	2020. **Zoey Liu** and Emily Morgan. Frequency-dependent Regularization in Constituent Ordering Preferences. Poster presentation at *The 42nd Annual Conference of the Cognitive Science Society*, Toronto, July 29 - August 1.
	2020. **Zoey Liu** and Emily Morgan. Item-specific regularization in word order preferences. Poster presentation at *The 11th International Conference on Construction Grammar*, Belgium, August 20-22 (postponed due to COVID-19).
	2020. **Zoey Liu**. Crosslinguistic extent of dependency length minimization. Poster presentation at *The 33rd Annual CUNY Human Sentence Processing Conference*, Amherst, March 19-21.
	2020. **Zoey Liu**. Do arguments appear closer crosslinguistically? Poster presentation at *The 33rd Annual CUNY Human Sentence Processing Conference*, Amherst, March 19-21.
	2020. **Zoey Liu** and Emily Morgan. Frequency-dependent regularization in abstract syntactic structures. Oral presentation at *The 33rd Annual CUNY Human Sentence Processing Conference*, Amherst, March 19-21.
	2019. **Zoey Liu**. A Comparative Corpus Analysis of PP Ordering in English and Chinese. Oral presentation at *SyntaxFest 2019*, Paris, August 26-30.
	2019. **Zoey Liu**. Quantifying structural and lexical constraints in PP ordering typology. Poster presentation at *The Society for Computation in Linguistics*, New York City, January 3-6.
	2019. Santiago Barreda and **Zoey Liu**. The effect of linguistic experience on the perception of talker height from Speech. Poster presentation at *The 93rd Annual Meeting of the Linguistic Society of America*, New York City, January 3-6.

2018. **Zoey Liu**. Quantifying structural and lexical constraints in PP ordering typology. Oral presentation at *California Meeting on Psycholinguistics*, Los Angeles, California, December 1-2.

2018. **Zoey Liu** and Kenji Sagae. Dependency length minimization and lexical frequency in prepositional phrase ordering in English. Oral presentation at *The Society for Computation in Linguistics*, Salt Lake City, Utah, January 4-7.

2017. Justin Spence, **Zoey Liu**, Kayla Palakurthy, & Tyler Lee-Wynant. Syntactic annotation of a hupa text corpus. Oral presentation at *Dene/Athabaskan Language Conference*, Camp Verde, Arizona, June 27-29.

2017, **Zoey Liu**, Tyler Lee-Wynant, and Justin Spence. Building for the future: Developing a Hupa dependency treebank. Oral presented at *UC Davis Symposium on Language Research*, Davis, California, May 26th.

2017. Justin Spence, **Zoey Liu.** Building for the future: Adopting TEI standards in a text of Hupa. Paper presented at *The Society of the Study of the Indigenous Languages of the Americas*, Austin, Texas, January 5-8.

2016. **Zoey Liu.** The story of collocation & dispersion. Oral presentation at *UC Davis Symposium on Language Research*, Davis, California, May 20th.

2016. Carole E. Chaski, Elizabeth A. Smith, Cristina Aggazzotti, & **Zoey Liu.** Confirmation bias and metalinguistic awareness. Oral presentation at *American Academy of Forensic Sciences*, Las Vegas, Nevada, February 22-27.

2016. **Zoey Liu.** The role of function words: An empirical study of text distance measure performance. Oral presentation at *The Association for Linguistic Evidence*, Washington, D.C., January 7-10.

2015. **Zoey Liu.** Rethinking collocation: Directional association measure and its potential role in semantic similarity computation. Oral presentation at *California Universities Semantics and Pragmatics Work 8*, Palo Alto, California, November 6-7.

INVITED TALK

2020. **Zoey Liu.** Data-driven Crosslinguistic Modeling of Constituent Ordering Preferences. Ted-Lab, Department of Brain and Cognitive Sciences, MIT, October 6th..

2020. **Zoey Liu.** Frequency-dependent Regularization in Constituent Ordering Preferences. NERT, Department of Linguistics, Georgetown University, March 31st.

RESEARCH EXPERIENCE

Cognitive Computing Lab, Baidu, Beijing, China

Software Development Research Intern   July - October 2019
Supervisor: Dr. Ping Li and Dr. Mingming Sun
Project: Design and implement meaning and knowledge representations for English and Mandarin Chinese for open information extraction and knowledge base construction

University of California, Davis, Davis, CA USA

Research Assistant   Summer 2020
Supervisor: Dr. Fernanda Ferreira
Project: Corpus analysis for investigations of language production and linearization strategies in real-world scene descriptions

Research Assistant   Summer 2020

Supervisor: Dr. Emily Morgan
Project: Applying the Maze task on online processing of binomial expressions in English

Research Assistant   Fall 2017 - present
Supervisor: Dr. Kenji Sagae
Project: Data-driven cross-linguistic modeling of word ordering preferences

Research Assistant   Fall 2017 - present
Supervisor: Dr. Santiago Barreda
Project: Acoustic and social effects on apparent-talker height perception

Graduate Student Researcher   Winter 2016 - Summer 2017
Supervisor: Dr. Justin Spence
Project: Understanding evidentiality and other grammatical phenomena through the expanded documentation of Hupa, National Science Foundation.

Graduate Student Reseacher   Summer 2015
Supervisor: Budget & Insititutional Analysis
Project: Statistical analysis of large-scale Career Pipeline survey data

Research Assistant   Fall 2014 - Winter 2015
Supervisor: Dr. David Corina
Project: The role of movement in memory of signs and ASL lexical processing

TEACHING EXPERIENCES	**University of California, Davis**, Davis, CA USA

Instructor
Introduction to Linguistics (Winter 2019, Summer 2018).

Teaching Assistant
Introduction to Linguistics (Spring 2020, Spring 2019, Summer 2017, Spring 2016, Winter 2016, Fall 2015, Spring 2015, Winter 2015).
Computational Linguistics (Winter 2020, Fall 2019, Fall 2018, Spring 2018, Winter 2018, Spring 2017).
Corpus Linguistcs & Text Analysis (Winter 2017).
Linguistic Analysis I (Fall 2016).

Associate Instructor for ESL (Summer 2016).

SERVICE	**Breath of Life Archival Institute for Indigenous California Languages**, Berkeley, CA USA

Linguistic Partner & Technical service   June-July, 2020
Linguistic Partner (Patwin)   June 3-9, 2018

Reviewer

CoNLL 2020: The SIGNLL Conference on Computational Natural Language Learning
Glossa: a journal of general linguistics

HONORS AND AWARDS	**University of California, Davis**, Davis, CA USA

Outstanding Graduate Teaching Award, nominated   2017
Combined Summer Awards, Linguistics Graduate Group and Institute for Social Science   2015

Nankai University, Tianjin, PRC
Secondary Scholarship   2012, 2011
Tri - Merit Student   2011

First Prize of Shandong Provincial Mathematics Competition, Shandong Province, PRC   2009

LANGUAGES   Mandarin Chinese (native), English (near native),
                 Hupa (research knowledge), Japanese (basic knowledge)

PROGRAMMING   Programming Languages: Python, R, Prolog
SKILLS
                 Operating System: Mac, Unix/Linux, Windows

REFERENCES   Kenji Sagae (sagae@ucdavis.edu)

                 John Hawkins (jhawkins@ucdavis.edu)

                 Emily Morgan (eimorgan@ucdavis.edu)