Zoey (Ying) Liu

CONTACT
INFORMATION

Department of Computer Science
140 Commonwealth Ave
Boston College
Chestnut Hill, MA 02467

Email: ying.liu.5@bc.edu
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Website: https://zoeyliu18.github.io

RESEARCH
INTERESTS

Computational linguistics; language typology; language documentation; language development.

EMPLOYMENT

Boston College, Chestnut Hill, MA USA

Postdoctoral research fellow, Department of Computer Science   2020 -
Advisor: Emily Tucker Prud'hommeaux

Baidu, Beijing, PRC

Software development research intern, Cognitive Computing Lab   Summer 2019

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
Thesis committee: Raúl Aranovich (chair), Almerindo Eduardo Ojeda, Santiago Barreda

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. Journal submission to *Linguistics Vanguard*.

Natalia Levshina, Savithry Namboodiripad, Marc Allassonnière-Tang, Mathew A. Kramer, Luigi Talamo, Annemarie Verkerk, Sasha Wilmoth, Gabriela Garrido Rodriguez, Timothy Gupton, Evan Kidd, **Zoey Liu**, Chiara Naccarato, Rachel Nordlinger, Anastasia Panova, Natalia Stoynova. Why we need a gradient approach to word order. Journal submission to *Linguistics: An Interdisciplinary Journal of the Language Sciences*.

Open-Domain Information Extraction Construction Methods and System. China Patent #202000013489. With Cognitive Computing Lab, Baidu.

JOURNAL ARTICLES

2020. **Zoey Liu**. 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

2021. Christine Yang, Duanchen Liu, Qingyun Yang, **Zoey Liu** and Emily Prud'hommeaux. Predicting pragmatic discourse features in the language of adults with autism spectrum disorders. To appear in *Proceedings of the Student Research Workshop at The Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP 2021)*.

2021. William Dyer, Richard Futrell, **Zoey Liu** and Gregory Scontras. Predicting cross-linguistic adjective order with information gain. To appear in *Findings of the Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP 2021)*.

2021. **Zoey Liu**, Robbie Jimerson and Emily Prud'hommeaux. Morphological Segmentation for Seneca. To appear in *Proceedings of The First Workshop on NLP for Indigenous Languages of the Americas (AmericasNLP)*.

2021. **Zoey Liu** and Masoud Jasbi. English Negative Constructions and Communicative Functions in Child Language. To appear in *Proceedings of The 43rd Annual Conference of the Cognitive Science Society*.

2021. **Zoey Liu** and Emily Prud'hommeaux. Dependency Parsing Evaluation for Low-Resource Spontaneous Speech. In *Proceedings of The Second Workshop on Domain Adaptation for NLP (Adapt-NLP)*.

2021. **Zoey Liu**. The Crosslinguistic Relationship between Ordering Flexibility and Dependency Length Minimization: A Data-Driven Approach. In *Proceedings of The Society for Computation in Linguistics*.

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)*.

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 PROCEEDING ABSTRACTS

2021. **Zoey Liu** and Emily Morgan. Frequency-dependent Regularization in Syntactic Constructions. In *Proceedings of The Society for Computation in Linguistics*.

2021. Alex Kramer and **Zoey Liu**. A Data-driven Approach to Crosslinguistic Structural Biases. In *Proceedings of The Society for Computation in Linguistics*.

2019. **Zoey Liu**. Quantifying Structural and Lexical Constraints in PP Ordering Typology. In *Proceedings of The Society for Computation in Linguistics* (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* (extended abstract).

2021. **Zoey Liu.** A Data-driven Approach to Structural Variation. Department of Linguistics, UC Davis, January 11th.

2020. **Zoey Liu.** Data-driven Crosslinguistic Modeling of Constituent Ordering Preferences. TedLab, 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.

2021. **Zoey Liu** and Emily Prud'hommeaux. Dependency Parsing Evaluation for Low-Resource Spontaneous Speech. Oral presentation at *The Second Workshop on Domain Adaptation for NLP (Adapt-NLP)*, Kyiv, April 20th.

2021. **Zoey Liu**. A multifactorial approach to constituent orderings. Oral presentation at *The 34th Annual CUNY Human Sentence Processing Conference*, University of Pennsylvania, March 4-6..

2021. **Zoey Liu**. The Crosslinguistic Relationship between Ordering Flexibility and Dependency Length Minimization: A Data-Driven Approach. Poster presentation at *The Society for Computation in Linguistics*, Online, February 15-19..

2021. **Zoey Liu** and Emily Morgan. Frequency-dependent Regularization in Syntactic Constructions. Poster presentation at *The Society for Computation in Linguistics*, Online, February 15-19.

2021. Alex Kramer and **Zoey Liu**. A Data-driven Approach to Crosslinguistic Structural Biases. Poster presentation at *The Society for Computation in Linguistics*, Online, February 15-19.

2020. **Zoey Liu**. The Relationship between Word Order Flexibility and Dependency Length Minimization. Oral 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** 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.

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.

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. Oral presentation 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.

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	**Leadership Training Development, Advocates for Indigenous California Language Survival**

Technical advisor & Planning committee member   2020 -

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
Conference: EMNLP, AmericasNLP, SIGTYP, ACL, CoNLL
  Journal: Glossa, Linguistics Vanguard

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
SKILLS

Programming Languages: Python, R, Prolog

Operating System: Mac, Unix/Linux, Windows

REFERENCES   Kenji Sagae (sagae@ucdavis.edu)

Emily Tucker Prud'hommeaux (prudhome@bc.edu)

John Hawkins (jhawkins@ucdavis.edu)

Emily Morgan (eimorgan@ucdavis.edu)

Justin Spence (jspence@ucdavis.edu)