

Borui Zhang

Updated January, 2022

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Education

University of Minnesota, Twin Cities Minneapolis, MN
Ph.D. in Linguistics (minor in CS) September 2016 – November 2021
Advisor: Dr. Claire Halpert

University of Minnesota, Twin Cities Minneapolis, MN
M.A. in Linguistics September 2014 – June 2016
Advisor: Dr. Tim Hunter

Tianjin Foreign Studies University Tianjin, China
B.S. in Educational Technology August 2007 – July 2011
Mentor: Dr. Lizhi Huang

Academic experience

**Natural Language Processing Specialist, Assistant Librarian
Academic Research Consulting and Services Department
University of Florida** December 2021 – present

Teaching Assistant

Institute of Linguistics (University of Minnesota)

LING 3001: Introduction to Linguistics

Spring2021 Fall2020 Spring2020 Spring2019 Spring2018 Fall2018 Fall2017

Leading weekly discussion sections; design section materials and activities; report students' performance to lecturer; classroom assisting; grading; mentoring; giving guest lectures

Grader role in:

LING 4202: Syntax I Spring 2016 Fall 2016

LING 4205: Semantics Fall 2017

LING 4302w: Phonology I Spring 2018

MnDRIVE Graduate Scholar Summer 2019

College of Science and Engineering (University of Minnesota)

Taught basic Robotic courses to K-12 students (particularly from under-represented groups to STEM disciplines) courses including programming Ozobots, Inkscape graphic editor, and Intro to virtual reality

Chinese Language Tutor, Chinese Flagship program (University of Minnesota) Spring 2015

Chinese Writing and Speaking

Provided outside-of-classroom help to undergraduate students improve their oral Chinese skills in pronunciations, tones, vocabulary, and pragmatics in real life conversations, and writing skills in grammar checking and word choices in essay writings

Publications

The Multiple Mechanisms for Mandarin Sluices

Co-authored with Jason Overfelt

Proceedings of GLOW-in-Asia, 2019

Sluicing-like Constructions in Kathmandu Newari (Nepal Bhasa)

Proceedings of CLS 54th 2018

The Multiple Mechanisms for Mandarin Sluices

Co-authored with Jason Overfelt

Proceedings of GLOW-in-Asia, 2019

Embedding, Covert Movement, and Intervention in Newari

Co-authored with Dustin Chacón

Proceedings of LSA 2018

Entropy Reduction Prediction on Mandarin Chinese Relative Clauses

Proceedings of 2016 Buckeye East Asian Linguistics Forum 2

Presentations

A corpus-based approach to exploring embedding verbs in Nepal Bhasa

November 2020

(Oral) Linguistics Colloquium (University of Minnesota)

Complementation in Nepal Bhasa

September 2019

(Oral) Linguistics Colloquium Student Summer Research (University of Minnesota)

Research work in computational linguistics

February 2019

(Lightning talk) The ACM-W Celebration of Women in Computing in the Upper MidWest (MinneWIC)

Complementation in Newari

March 2017

(Oral) The seventh Formal Approaches to South Asian Languages (FASAL) workshop, MIT, Boston

Entropy Reduction Prediction on Mandarin Relative Clauses

Oct 2016

(Oral) Semantics and Syntax Workshop of the American Midwest and Prairies, Northwestern University, Evanston, Illinois

	Embedding Structures in Mandarin Chinese	April 2015
	(Oral) Semantics Workshop of the American Midwest and Prairies (SWAMP) Spring Research Day, Center for Cognitive Sciences, University of Minnesota	
Industry experience	Natural Language Understanding Specialist	January - April 2021
	Cerence Inc. Cantonese language Team	(remote) Burlington, MA
	Created weighted context-free grammar and dictionaries (canonical/surface style); generate utterances for training automotive conversational AI model; train models using grid computing; validated final annotated data with by running stat coverage test, direct-correction, and regex-filters	
	Computational Linguist Research Intern	January - August 2017
	United Language Group R&D	Minneapolis, MN
	Built parallel corpora for machine translations in Chinese, Japanese, and Korean; segmented the data and evaluated the models (rule-and-NN based), using Moses, NLTK, NLPiR	
	Language consultant	2017
	Fallon Worldwide Advertising Team	Minneapolis, MN
	Provided semantic knowledge to the design team, and created a semantic entertainment program; used Twitter API and Python and implemented a program that captures keywords in customers' tweets	
Skills	Programming	
	Python (lib:TensorFlow, PyTorch) R, Matlab, Haskell, Bash, JavaScript, Git, HTML, CSS, Linux	
	Machine Learning Certification (verified on LinkedIn)	
	Sequence Models / NLP in TensorFlow / TensorFlow for AI / Structuring ML project	
	Languages	
	Mandarin (fluent), Cantonese (advanced), Korean (phonology & morphology) Japanese (project), Nepal Bhasa (research focus), Somali (class experience)	
Honors and scholarships	Summer Research scholarship (University of Minnesota)	2019
	NASSLLI 2016 Travel Grant (Rutgers University)	2016
	ESSLLI Travel Grant (European Association for Computer Science Logic)	2015
Volunteer Service	Computational Linguistics Reading Group Leader	2019-present
	International Latin Dance Club Officer	2019-present
	Linguistics Colloquium Student Organizer	2015-2018
	Journal of Healthcare Informatics Research Review	2018

Memberships

Linguistics Society of America

Use of Computational Methods in the Study of Endangered Languages

Women in Computer Science