Xiaomeng (Miranda) Zhu

xz2@wellesley.edu
21 Wellesley College Road
Unit 6209
Wellesley, MA 02481

xm_zhu@outlook.com
Room 202, Building No.58, Lane 289
Jinian Road
Shanghai, China 200434

EDUCATION

Wellesley College, Wellesley, MA — Expected May 2023
Candidate for Bachelor of Arts — GPA: 3.93
Double Major in Computer Science and Cognitive and Linguistic Sciences with a concentration in Linguistics
Relevant Courses: Machine Learning, Phonetics and Phonology, Semantics and Pragmatics, Probability and Statistical Methods, Algorithms

Massachusetts Institute of Technology, Cambridge, MA — Jun 2020 - Present
Cross-registered student

Summer School:
Stanford University, Stanford, CA — Jun 2018 - Aug 2018
Intensive Studies Program on Human Rights — GPA: 3.925

EXPERIENCE

Research Assistant — Feb 2022 - Present
Wellesley College Linguistics Department — Wellesley, MA
Advisor: Sabriya Fisher
Implement a Python script that automatically extracts sociolinguistic features of interest, organize and code phonetic data from the CORAAL corpus using Praat, and analyze relevant vowel qualities

CS 204 and CS 240 Course Tutor — Oct - Dec 2020, Jan 2022 - Present
Wellesley College Computer Science Department — Wellesley, MA
Instructors: Scott Anderson and Andrew Davis
Work with students to reinforce learning of materials and assist in debugging programming assignments in web development and computer systems

Research Assistant — Feb 2021 - Present
MIT Experimental Syntax and Semantics Lab — Cambridge, MA
Faculty Advisor: Martin Hackl, Direct Advisor: Leo Rosenstein
Design experimental interface and collect data on the PCIbex farm, conduct statistical analysis with R Studio, and assist with data interpretation

Research Assistant — Dec 2021 - Mar 2022
MIT Linguistics Prosodic Experiment — Cambridge, MA
Advisor: Danfeng Wu
Planned in-person recording sessions with participants, introduced quiet room and experimental settings, monitored participants' behavior and the recording quality, and annotated and edited recording files in Audacity

Data Science Intern — Jun - Aug 2021
Shanghai Baosight Software Co., Ltd. — Shanghai, China
Advisor: Yuzhu Chen
Retrieved steel production data using IBM Db2 Toad, analyzed steel defect patterns using decision tree, clustering, and PCA algorithms, and summarized and presented results to the team

Research Assistant — Jun - Aug 2020
MIT Media Lab — Cambridge, MA
Faculty Advisor: Alex Pentland, Direct Advisor: Mohsen Bahrami
Built interactive dashboard components that visualized mobility behavior and economic growth using react.js, designed color schemes for the map and accompanying widgets,

and communicated with team members to improve dashboard design and revised based on collective feedback

PROJECTS

Tense in Mandarin Chinese   Oct - Dec 2021
Reviewed existing literature on the existence of Tense in Mandarin Chinese, summarized main issues of controversy, explored the possibility of having Tense undefined in the Deep Structure, and presented work to the class

Phonetics and Phonology of Korean   Feb - Apr 2021
Worked with a native Korean speaker to conduct recordings of phonetic and phonological phenomena, analyzed waveforms and spectrograms in Praat, validated results against existing theories, and presented work to the class

Social Variation of Words and Sounds in American Dialect   Oct - Dec 2020
Collected sociolinguistic data using crowd-sourced survey, evaluated social variation patterns of words and phonemes in North American English, identified dialect regions using isoglosses, and verified results against William Labov's first principle on language change

LANGUAGES AND TECHNICAL SKILLS

Languages: Mandarin Chinese and English (Native Proficiency), Spanish (Professional Working Proficiency)
Programming Languages: Python, R, C, Java, Racket, SML, LaTeX.
Web Development: HTML, CSS, JavaScript, React.js
Applications: Praat, Audacity, Adobe Premiere Pro