

Lindia Tjuatja

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RESEARCH INTERESTS

Computational semantics/pragmatics and psycholinguistics, syntax-semantics interface, NLP for underrepresented and endangered languages

EDUCATION

Carnegie Mellon University, Pittsburgh, PA August 2022-
Ph.D. in Language Technologies, School of Computer Science
Advisor: Graham Neubig

University of Texas at Austin, Austin, TX Aug 2018-May 2022
B.S. Electrical and Computer Engineering Honors, B.A. Linguistics
GPA: 3.89/4.00

AWARDS

- Dean's Distinguished Graduate (UT College of Liberal Arts) May 2022
- Darrel K. Royal Presidential Scholarship (UT Linguistics) 2021-2022
- T.J. Whaley Scholarship (Cockrell School of Engineering) 2018-2022

RESEARCH EXPERIENCE

CMU LTI Research Intern, Pittsburgh, PA May-Aug 2022
Advised by Shruti Rijhwani and Graham Neubig

- Evaluated transfer learning as a method to improve performance of OCR post-correction models for endangered language texts
- Submitted abstract and presented at WiNLP workshop, co-located at EMNLP 2021

UT Linguistics Undergraduate Research Assistant, Austin, TX 2019-2022
Advised by John Beavers

- Participated in two research projects: (1) a typological study focused on change-of-state verbs and (2) a corpus study to identify verb class constraints on the English middle construction
- Submitted work from (2) as an abstract for the 2023 LSA Annual Meeting

POSTERS/PUBLICATIONS

Lindia Tjuatja, John Beavers, and Venus Shirazy. 2022.
Affectedness Without Change-of-State: The Case of English Dispositional Middles
To be presented at the 2023 Linguistic Society of America Annual Meeting.

Lindia Tjuatja, Shruti Rijhwani, and Graham Neubig. 2021.
Explorations in Transfer Learning for OCR Post-Correction
In Widening NLP Workshop-Accepted Papers.

Alexandria Brown, Beaudry Chase, Helen Salgi, and **Lindia Tjuatja**. 2020.
Flower, Laugh, and Murder: A Cross-Linguistic Study of Verbs
Presented at 2020 Longhorn Research Poster Session.

CLASS/ PERSONAL PROJECTS	Wearable Silent Speech Interface Aug 2021-May 2022 ECE Honors Senior Design Project <ul style="list-style-type: none"> • Worked in a team of five to develop a wearable device that decodes mouthed speech based on neuromuscular signals recorded from facial and throat muscles • Adapted automatic speech recognition techniques to develop HMM-based system that models triphones from acquired signals
	Drowsy Driver Detection System Nov 2019 1st Overall and Best in Category at 2019 SEC Safety Day Makeathon <ul style="list-style-type: none"> • Collaborated with a team of five to design, prototype, and present a system that detects and prevents fatigued driving using Arduino, C, and Python
WORK EXPERIENCE	Language Editorial Assistant , Austin, TX Jan-Aug 2022 Linguistic Society of America <ul style="list-style-type: none"> • Organize and send weekly reports to editors
	Undergraduate Teaching Assistant , Austin, TX Aug 2020-Dec 2021 Department of ECE, Department of Linguistics <ul style="list-style-type: none"> • LIN313 Language and Computers (taught by Jessy Li, fall 2020) • EE351K Probability and Random Processes (taught by Sanjay Shakkottai, spring 2021) • EE4445S Real-Time Digital Signal Processing (taught by Brian Evans, fall 2022)
LEADERSHIP	IEEE-HKN Psi Chapter Aug 2020-May 2021 Recording Secretary (Fall 2020), Treasurer (Spring 2021) <ul style="list-style-type: none"> • Organize professional and social events for high-achieving ECE upperclassmen • Communicate with pledges and actives on HKN requirements, record pledge/active hours at weekly meetings, and manage listservs and budget
	Re-sonate Non-profit Aug 2020-May 2021 Campus Relations Director <ul style="list-style-type: none"> • Built a presence with student organizations on campus and establish relationships with university officials and faculty • Organized technical and social events to promote and empower women in STEM fields
ADDITIONAL SKILLS/ HOBBIES	<i>Programming</i> Python, Java, MATLAB, C/C++
	<i>Languages</i> English (native), Spanish (intermediate), Japanese (intermediate), Mandarin Chinese (heritage)
	<i>Music</i> Viola and violin, four-year TMEA All-State Orchestra Member, UT University Orchestra principal violist (2018-2019)