

# HAN LI

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## RESEARCH INTERESTS

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**Theoretical** Phonology · Phonetics · Tone and Prosody · Autosegmental Representations  
**Computational** Formal Language Theory · Learnability · Language Modeling  
**Languages** Hausa · Mandarin · Cantonese · Wu · Hokkien · Lanzhou · Uyghur

## EDUCATION

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**Stony Brook University**, Stony Brook, NY 2021–Present  
*Ph.D. in Linguistics*  
Affiliated with the **Institute for Advanced Computational Science**  
Dissertation: *Learning Tonal Patterns*  
Committee: Jeffrey Heinz (main advisor), Ellen Broselow, Jiwon Yun, Adam Jardine (external)

**Nanjing Aeronautics and Astronautics University**, Nanjing, China 2018–2021  
*M.A. in Linguistics*  
Thesis: *Prosody of Mandarin Rhetorical Questions*

**China Agricultural University**, Beijing, China 2013–2017  
*B.A. in English Language and Literature*  
Thesis: *English Interrogative Intonation of Uyghur EFL Learners*

NON-DEGREE SEEKING

**Institute for Advanced Computational Science**; Stony Brook, NY 2022–2024  
Advanced Graduate Certificate in *Data and Computational Science*

## PUBLICATIONS

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### PEER-REVIEWED JOURNALS

1. **Li, H.** & Heinz, J. *Tonotactic learning with autosegmental representations*. Revise and resubmit (minor revisions), *Phonology*.
2. Yi, L., **Li, H.**, Li, Y., & Mu, J. (2024). An ongoing tonal-pattern change: Lanzhou dialect. *Journal of Chinese Linguistics*, 52(2), 336–361.

### PEER-REVIEWED CONFERENCE PROCEEDINGS

1. **Li, H.** (2025). The interaction between tone and intonation in Hausa wh-questions. In Vicki Carstens, Katherine Russell, Olawale Akingbade, Deborah Morton & Michael Diercks (eds.), *Pamoja tena ‘Together again’: African linguistics after COVID*, 213–233.

### PEER-REVIEWED ABSTRACT-BASED PROCEEDINGS

1. **Li, H.** (2025). Learning tonotactic patterns over autosegmental representations. *Proceedings of the Annual Meetings on Phonology*, 1(1).
2. **Li, H.** (2021). Prosodic differences between rhetorical and information-seeking questions in Mandarin. *ICU Working Papers in Linguistics*, 15, 45–52.

1. **Li, H.** & Heinz, J. What matters in tonotactic learning. Submitted to *Proceedings of the Society for Computation in Linguistics (SCiL 2026)*.

## PRESENTATIONS

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### CONFERENCE AND WORKSHOP PRESENTATIONS

1. **Li, H.** & Heinz, J. *Comparing tonotactic learning over strings and autosegmental representations*. Old World Conference in Phonology (OCP 23), University of Cambridge, Cambridge, UK.
2. **Li, H.** (2025). *Understanding tones in language: patterns, representations, and insights*. Student Seminar, Institute for Advanced Computational Science, Stony Brook University.
3. **Li, H.** (2025). *Cross-fold Validation of BUFLA-AR*. Rutgers Subregular Phonology Workshop 2025, Rutgers University, New Brunswick, NJ.
4. **Li, H.** (2024). *Bottom-Up Factor Inference Algorithm over Autosegmental Representation (BUFLA-AR)*. Rutgers Subregular Phonology Workshop, Rutgers University, New Brunswick, NJ.
5. **Li, H.** (2024). *Learning Tonal Patterns*. Lightning Talk, Institute for Advanced Computational Science, Stony Brook University.
6. **Li, H.** (2022). *The Q-morpheme in Hausa*. Paper presented at the 54th Annual Conference on African Linguistics (ACAL 54), University of Connecticut, Storrs, CT.
7. **Li, H.** (2021). *Prosodic differences between rhetorical and information-seeking questions in Mandarin*. Paper presented at the 5th Asian Junior Linguists Conference (AJL 5), International Christian University, Tokyo, Japan (online).
8. **Li, H.** (2020). *Syntactic distribution and prosodic features of rhetorical questions in Mandarin*. Paper presented at the 8th International Academic Conference for Graduates (IACGN 8), Nanjing, China.
9. **Li, H.** (2019). *Attenuation and boosting of complaints in Chinese computer-mediated communication*. Paper presented at the 7th International Academic Conference for Graduates (IACGN 7), Nanjing, China.

### INVITED TALKS

1. **Li, H.** (2026). *Tone as Structure: Morphology, Representation, and Learning*, Surrey Morphology Group, University of Surrey, London, UK.
2. **Li, H.** (2025). *Learning tonotactics over autosegmental representations.*, Phonology Group, Yale University, New Haven, CT.

### POSTER PRESENTATIONS

1. **Li, H.** (2024). *Learning tonotactic patterns over autosegmental representations*. Poster presented at the Annual Meeting on Phonology (AMP), Rutgers University, New Brunswick, NJ, October 2024.
2. **Li, H.** (2024). *Learning tonal patterns*. Poster presented at Institute for Advanced Computational Science Research Day, Stony Brook University, April 2024.

## HONORS & AWARDS

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1. Stony Brook Foundation Board of Trustees Dissertation Completion Endowed Fellowship (\$15,000) 2026
2. Junior Researcher Award, Institute for Advanced Computational Science (\$34,000) 2024 -2026
3. Research Grant, Department of Linguistics, Stony Brook University (\$300) 2021

## EMPLOYMENT

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### STONY BROOK UNIVERSITY

#### • Instructor - Linguistics Department

- LIN 101 Introduction to Linguistics (co-taught) Winter 2023
- LIN 230 Sociolinguistics (co-taught) Summer 2023; Summer 2024

#### • Teaching Assistant – Department of Linguistics

(Courses marked with \* indicate responsibility for lab or recitation sessions.)

- LIN 637 Computational Linguistics Spring 2026
- LIN 330 Language Acquisition (Online, Asynchronous) Winter 2025
- LIN 380 Anatomy and Physiology of Speech and Hearing Fall 2025
- LIN 350 Experimental Phonetics\* Spring 2025
- LIN 320 English Grammar Fall 2024
- LIN 110 Anatomy of Language (Online, Asynchronous) Spring 2024
- LIN 536 Mathematical Methods Fall 2023
- LIN 201 Phonetics\* Fall 2022
- LIN 300 Phonology\* Spring 2022; Spring 2023
- LIN 431 Uncommonly Taught Language (Hausa)\* Fall 2021

#### • Research/Project Assistant – Department of Linguistics

- Research Assistant to Dr. Thomas Graf, developing course materials for *Math Methods* Summer 2022
- Research Assistant to Dr. John Bailyn at V-NYI Spring 2026 (scheduled)

#### • Student Assistant – Student Accessibility & Support Center

- Proctored accommodated exams and provided administrative support 2023–present

## SERVICE

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### DEPARTMENTAL / UNIVERSITY

- Student Coordinator, Open House, Stony Brook Linguistics PhD Program 2026
- Organizer, Stony Brook–Yale–NYU–CUNY Linguistics Conference (SYNC) 2024
- Organizer, Linguistics Colloquium Series, Department of Linguistics 2023–2024
- Senator, Graduate Student Organization (GSO) 2022–2023
- Organizer, Linguistics Brown Bag Series, Department of Linguistics 2022

### PROFESSIONAL SERVICE

- Reviewer, SYNC 2025
- Session Chair, Mathematics of Language (MoL 20) 2025
- Reviewer, Formal Approaches to South Asian Linguistics (FASAL 14) 2024
- Session Chair, Workshop on Model-Theoretic Representations in Phonology 2022

### OUTREACH

- Volunteer, Longwood Women in STEM April 2026 (scheduled)
- Instructor, North American Computational Linguistics Open Competition (NACLO) 2024–2025
- Tutor, Summer Youth Camp for Computational Linguistics (SYCCL) 2023–2025

## SKILLS

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- **Languages:** Mandarin (native), English (near-native), Japanese (intermediate)
- **Programming & Data Analysis:** Python (pandas, NumPy, scikit-learn, matplotlib, graphviz), R (tidyverse), Haskell
- **Speech & Experimental Tools:** Praat, ELAN, PsychoPy, E-Prime, Qualtrics
- **Computational & Research Tools:**  $\text{\LaTeX}$ , Git, GitHub, Jupyter Notebooks
- **Methods:** Statistical analysis, experimental design, hypothesis testing, data visualization, machine learning (classification, regression, model evaluation)