

HAN LI

Linguistics Department, Stony Brook University
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RESEARCH INTERESTS

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

EDUCATION

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

PEER-REVIEWED JOURNALS

1. **Li, H.** & Heinz, J. (Accepted) *Tonotactic learning with autosegmental representations*. *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 & BOOK CHAPTERS

1. **Li, H.** & Heinz, J., (2026) What Matters in Tonotactic Learning. *Society for Computation in Linguistics* 9(1).
2. **Li, H.** (2026). The Interaction between Tone and Intonation in Hausa Wh-questions. In Carstens, Vicki, Russell, Katherine R., Akingbade, Olawale, Morton, Deborah & Diercks, Michael (eds.). 2026. *Pamoja tena 'Together again': African linguistics after COVID*. (Contemporary African Linguistics 14). Berlin: Language Science Press.

PEER-REVIEWED ABSTRACT-BASED PROCEEDINGS

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

PRESENTATIONS

CONFERENCE AND WORKSHOP PRESENTATIONS

1. **Li, H.** & Heinz, J. (2026). *What Matters in Tonotactic Learning*. Talk at the Society for Computation in Linguistics, University of California, San Diego.
2. **Li, H.** & Heinz, J. (2026) *Comparing tonotactic learning over strings and autosegmental representations*. Old World Conference in Phonology (OCP 23), University of Cambridge, Cambridge, UK.
3. **Li, H.** (2025). *Understanding tones in language: patterns, representations, and insights*. Student Seminar, Institute for Advanced Computational Science, Stony Brook University.
4. **Li, H.** (2025). *Cross-fold Validation of BUFLA-AR*. Rutgers Subregular Phonology Workshop 2025, Rutgers University, New Brunswick, NJ.
5. **Li, H.** (2024). *Bottom-Up Factor Inference Algorithm over Autosegmental Representation (BUFLA-AR)*. Rutgers Sub-regular Phonology Workshop, Rutgers University, New Brunswick, NJ.
6. **Li, H.** (2024). *Learning Tonal Patterns*. Lightning Talk, Institute for Advanced Computational Science, Stony Brook University.
7. **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.
8. **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).
9. **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.
10. **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. Society for Computation in Linguistics (SCiL) Conference Scholarship (\$800) | 2026 |
| 2. Stony Brook Foundation Board of Trustees Dissertation Completion Endowed Fellowship (\$15,000) | 2026 |
| 3. Junior Researcher Award, Institute for Advanced Computational Science (\$34,000) | 2024 -2026 |
| 4. Research Grant, Department of Linguistics, Stony Brook University (\$300) | 2021 |

EMPLOYMENT

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**

2023–present

- Proctored accommodated exams and provided administrative support

SERVICE

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
- Instructor, North American Computational Linguistics Open Competition (NACLO) 2024–2025
- Tutor, Summer Youth Camp for Computational Linguistics (SYCCL) 2023–2025

SKILLS

- **Languages:** Mandarin (native), English (near-native), Japanese (intermediate)
- **Programming:** Python (Pandas, NumPy, scikit-learn, PyTorch), 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)