

# Huteng Dai

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## Research Interests

THEORETICAL AND METHODOLOGICAL:

Phonology • Phonetics • Computational linguistics • Experimental linguistics

EMPIRICAL:

Harmony system • Perceptual similarity • Tone and prosody

## Education

- 2018-present PhD STUDENT, Department of Linguistics, Rutgers University, New Brunswick  
2014-2018 BA, Capital Normal University [首都师范大学], Beijing  
Thesis: A CONSTRAINT-BASED ANALYSIS OF DISYLLABIC TONE SANDHI IN LINCHUAN.  
Advisor: [Zihe Li](#) (now at Peking University)

NON-DEGREE

- 2019 LSA Linguistics Institute, University of California, Davis  
2018 Linguistics Institute of China, Capital Normal University, Beijing  
2017 LSA Linguistics Institute, University of Kentucky  
2017 *Exchange student*, Department of Linguistics, University of California, Santa Barbara

## Publications

JOURNAL ARTICLES

- 2019 Zihe Li, Jingjing Pan, and **Huteng Dai**. Nasal sound changes in Naish languages 纳西语与鼻音相关的语音演变. *Bulletin of Linguistic Studies* 语言研究集刊, 23, 2019

REFERRED CONFERENCE PROCEEDINGS

- 2021 **Huteng Dai** and Richard Futrell. Simple induction of (deterministic) probabilistic finite-state automata for phonotactics by stochastic gradient descent. In *Proceedings of the 18th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, 2021  
2021 **Huteng Dai**. Learning Nonlocal Phonotactics in a Strictly Piecewise Probabilistic Phonotactic Model. In *Proceedings of the Annual Meetings on Phonology*, volume 9, 2021

- 2021 **Huteng Dai**. Gradient similarity in Lezgian laryngeal harmony: representation and computation. In *Proceedings of the 38th West Coast Conference on Formal Linguistics*. Cascadilla Press, 2021
- 2021 Wenyue Hua, Adam Jardine, and **Huteng Dai**. Learning Underlying Representations and Input-Strictly-Local Functions. In *Proceedings of the 37th West Coast Conference on Formal Linguistics*. Cascadilla Press, 2021
- 2020 **Huteng Dai** & Richard Futrell. Information-theoretic characterization of the subregular hierarchy. In *Proceedings of the Society for Computation in Linguistics*, volume 3, 2020

## Presentations

- 2021 **Huteng Dai** and Richard Futrell. Simple induction of (deterministic) probabilistic finite-state automata for phonotactics by stochastic gradient descent. Talk presented at ACL Workshop on Computational Research in Phonetics, Phonology, and Morphology (SIG-MORPHON), online.
- 2021 Tajudeen Mamadou Y, **Huteng Dai**, Yair Haendler and Mariapaola D’Imperio. The Role of Global and Local Pitch Levels in the Perception of Questions in Ede Chaabe. Poster presented at Phonetics and Phonology in Europe (PaPE), online.
- 2021 **Huteng Dai**. Learning nonlocal phonotactics in Strictly Piecewise phonotactic model: recent progress. Talk presented at Society for Computation in Linguistics (SCiL), online.
- 2020 **Huteng Dai**. Structure matters: Learning nonlocal phonotactics in Strictly Piecewise phonotactic model. Talk presented at Annual Meeting of Phonology (AMP), online.
- 2020 **Huteng Dai**. Gradient similarity in Lezgian laryngeal harmony: representation and computation. Talk presented at West Coast Conference in Formal Linguistics (WCCFL), Vancouver, BC Canada.
- 2020 Wenyue Hua, Adam Jardine, and **Huteng Dai**. A subregular approach to the problem of learning underlying representations. Poster presented at West Coast Conference in Formal Linguistics (WCCFL), Vancouver, BC Canada.
- 2020 **Huteng Dai**. Gradient similarity in Lezgian laryngeal harmony: representation and computation. Talk presented at Berkeley Linguistics Society (BLS) Workshop “Phonological Representations: at the crossroad between gradience and categoricity”, Berkeley, CA.
- 2020 **Huteng Dai** & Richard Futrell. Information-theoretic Characterization of the Sub-regular Hierarchy. Talk + Poster presented at Society for Computation in Linguistics “Workshop on Formal Language Theory in Linguistics”, New Orleans, LA.
- 2020 **Huteng Dai**. Scalar similarity and gradient featural representation in Lezgian laryngeal harmony. Poster presented at the 94th Annual Meeting of the Linguistic Society of America, New Orleans, LA.
- 2019 **Huteng Dai**. Lezgian long-distance laryngeal harmony and gradient symbolic representation. Talk presented at RULing, New Brunswick, NJ.

## Working & Teaching Experience

- 2020 Teaching Assistant, RUTGERS UNIVERSITY  
Introduction to Linguistic Theory;
- 2018.3-2018.6 Teaching Assistant, CAPITAL NORMAL UNIVERSITY  
The Phonetics and Phonology of Chinese;

2018.7-2018.8 Teaching Assistant, LINGUISTICS INSTITUTE OF CHINA  
Phonology II; Instructor: [Lian-Hee Wee](#)  
Syntax II; Instructor: [Wei-Tien Dylan Tsai](#)  
Semantics II; Instructor: Haihua Pan

## Research Experience

2017.3-2017.6 Research Assistant, University of California, Santa Barbara  
2017.1 Fieldwork in Jiangxi Linchuan, Linchuan dialect  
2016.7 Fieldwork in Yunnan Lijiang, Moso language (with Zihe Li & Jinjin Pan)

## Services

2019-present Organizer, Rutgers Phonology and Phonetics Research Group (PHONX)  
2019-2020 Organizer, Rutgers Mathematical and Computational Linguistics Group  
2020.1-2020.7 Tenure-track job search committee (Phonology)  
2018-2020 Editor, Facebook Page, Department of Linguistics, Rutgers University  
2018 Organizer & Founder, BEIJING P-SIDE READING GROUP

## Technical Proficiency

PROGRAMMING LANGUAGES:  $\text{\LaTeX}$ , Python, R, MATLAB, HTML, CSS  
TOOLS: Git, Ixex Farm, Praat, ELAN, EyeLink, EEG, FSL

## Natural Languages

Mandarin Chinese, English, Gan Chinese, Moso (FIELDWORK)

## Memberships

Rutgers NLP Group, Department of Computer Science  
Rutgers Computational Linguistics Lab  
Rutgers Phonology and Phonetics Research Group (PHONX)  
Rutgers Prosody Group  
BEIJING P-SIDE READING GROUP  
LINGUISTIC SOCIETY OF AMERICA (LSA)