Huteng Dai

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Research Interests

Computational linguistics, Phonology, Phonetics, Experimental linguistics, Harmony system, Tone, Turkic, Mandarin

Education

2018-present	PhD student, Department of Linguistics, Rutgers University, New Brunswick
2018-2022	Certificate in Cognitive Science, Center for Cognitive Science (RuCCS), 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 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

Grant/Fellowships/Awards

University Graduate Excellence Fellowship. Fall 2022. Rutgers University; **Cognitive Science Center Travel Grant**. Fall 2019, Rutgers University; **University Graduate Excellence Fellowship**. Fall 2018-Spring 2020. Rutgers University.

Publications

Paper-reviewed 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

ABSTRACT-REVIEWED CONFERENCE PROCEEDINGS

2022 **Huteng Dai** and Richard Futrell. Learning phonotactics in a differentiable framework of subregular languages. In *Proceedings of the Annual Meetings on Phonology*, volume 9, 2022

2021 **Huteng Dai**. Learning Nonlocal Phonotactics in a Strictly Piecewise Probabilistic Phonotactic Model. In *Proceedings of the Annual Meetings on Phonology*, volume 8, 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

Selected presentations

Upcoming   **Huteng Dai**. TBA. Invited Talk at City University of New York Graduate Center, New York City, NY.

Upcoming   **Huteng Dai**. Learning phonotactics in the presence of exceptions with a categorical approach. Invited Talk at Department of Language Science University of California, Irvine, Irvine, CA.

Upcoming   **Huteng Dai**. Phonotactic learning in the presence of exceptions with a categorical approach. Talk presented at Annual Meeting on Phonology (AMP), Los Angeles, CA.

2021 **Huteng Dai** and Richard Futrell. Learning Phonotactics in a Differentiable Framework of Subregular Languages. Talk presented at Annual Meeting on Phonology (AMP), online.

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 (SIGMORPHON), 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 on 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 Subregular 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.

Teaching Experience

2023 Spring	Instructor (as scheduled), Rutgers University
	Introduction to Linguistic Theory (Honor College);
2022 Spring	Instructor, Rutgers University
	Linguistic Perspectives on Language: Invented Languages;
2021 Fall	Instructor, Rutgers University
	Linguistic Perspectives on Language: Invented Languages;
2021 Spring	Instructor, Rutgers University
	Introduction to Linguistic Theory;
2020 Fall	Teaching Assistant, Rutgers University
2018.3-2018.6	Introduction to Linguistic Theory. 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

Fieldwork Experience

2017.1	Fieldwork in Jiangxi Linchuan, Linchuan dialect
2016.7	Fieldwork in Yunnan Lijiang, Naish language

Reviewing

Society for Computation in Linguistics (2021)

Services

2021	Volunteer and Session Chair, The 53rd Annual Meeting of the North East Linguistic Society at Rutgers
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	Founder & Organizer, BEJING P-SIDE READING GROUP

Technical Proficiency

PROGRAMMING LANGUAGES: Python, R, LaTeX
TOOLS: Git, Ibex Farm, Praat, ELAN, EyeLink, FSL (Neuroimage analysis)

Natural Languages

Mandarin Chinese (Native), English (Fluent), Gan Chinese (Native), Naish (FIELD-WORK)

Memberships

Rutgers Computational Linguistics Lab
Rutgers Phonology and Phonetics Research Group (PHONX)
Rutgers Prosody Group
LINGUISTIC SOCIETY OF AMERICA (LSA)