**Huteng Dai**

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**PROFESSIONAL SUMMARY**

As a highly motivated professional in natural language processing and machine learning, I have a proven track record of excellence in coding, writing, presenting, research, and collaboration. My PhD training has equipped me with the ability to perform effectively under pressure and to adapt to a diverse range of roles, while also fostering collaborative work environments.

**EDUCATION**

**Rutgers University New Brunswick, NJ**

PhD: Linguistics | Computational Linguistics, Phonology *Sept 2018-June 2024*

**Capital Normal University Beijing, China**

Bachelor of the Arts: Teaching Chinese as a Second Language *Sept 2014-May 2018*

**SKILLS**

**Programming Languages:** Python, C++

**Web Development:** HTML, CSS, JavaScript

**Data Analysis:** R

**Tools and Technologies:** Git, Keynote, LaTeX, Jupyter Notebook, Visual Studio, Praat (Phonetics)

**Languages:** English, Mandarin Chinese

**SELECTED WORK EXPERIENCE**

**Part-Time Lecturer New Brunswick, NJ**

***Rutgers University Department of Linguistics*** *Jan 2021 – June 2023*

* Taught “Introduction to Linguistic Theory” to advanced undergraduate students at Rutgers Honors College and regular session (Enrollment: 14 and 27).
  + Created and executed lesson plans for various linguistic topics such as Set Theory, Logic, Natural Language Processing, Phonology, Phonetics, Morphology, Syntax, Semantics, and Pragmatics.
  + Mentored IT and Computer Science students in their creative project on natural language processing.
  + Conducted office hours to assist students in achieving their academic and professional goals.
* Instructor for “Invented Language”, an asynchronous undergraduate-level course (Enrollment: 98 and 48).
  + Introduced abstract linguistic concepts via thought-provoking examples in invented languages such as Dothraki, Elvish, and Esperanto.
  + Exhibited exceptional communication skills while facilitating the asynchronous learning experience of a sizable student cohort.

**SELECTED PUBLICATIONS**

Huteng Dai & Richard Futrell. Simple induction of (deterministic) probabilistic finite-state automata for phonotactics by stochastic gradient descent. In *Proceedings of the 18th ACL SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, 2021.

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

Huteng Dai. Gradient similarity in Lezgian laryngeal harmony: representation and computation. In *Proceedings of the 38th West Coast Conference on Formal Linguistics*, 2021. Cascadilla Press.

Huteng Dai & Richard Futrell. Information-theoretic Characterization of the Sub-regular Hierarchy. In *Proceedings of the Society for Computation in Linguistics*, volume 3, 2020.