

# Chihiro Taguchi

Updated January 14, 2023

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## Research

My primary research interests lie in **human languages**. In particular, how grammars of languages can be analyzed (**theoretical linguistics**; especially Minimalist Program and Lexical Functional Grammar), how languages can be computationally modeled (**natural language processing**), and how such linguistic theories and models can interact, particularly in **language documentation** for low-resource endangered languages.

## Education

### College of Engineering,

### The University of Notre Dame

IN, United States

PhD in Computer Science and Engineering.

Aug 2022 – Jul 2027

Supervisor: Dr. David Chiang.

### School of Philosophy, Psychology and Language Sciences,

### The University of Edinburgh

Edinburgh, United Kingdom

MSc by Research (MScR) in Linguistics with Distinction.

Sep 2021 – Aug 2022

Supervisors: Prof. Peter Ackema and Dr. Itamar Kastner.

Thesis: Deconstructing Mermaid Constructions: From Control and Raising in Tatar. (**Distinction**)

### Division of Information Science,

### Nara Institute of Science and Technology

Nara, Japan

MA in Engineering.

Oct 2020 – Sep 2022

Supervisor: Prof. Taro Watanabe (Natural Language Processing Laboratory).

### School of Oriental and African Studies,

### The University of London

London, United Kingdom

Exchange Student in Linguistics.

Sep 2018 – Jun 2019

Mentor: Dr. Christopher Lucas.

Thesis: On Three Types of Predicates with Infinitival VP in Tatar:

*kiräk*, *tiyeš*, and *telä-* with LFG Analysis. (**Distinction**)

### Department of Political Science, Faculty of Law,

### Keio University

Tokyo, Japan

Bachelor of Laws (LL.B.).

Apr 2015 – Sep 2019

Supervisor: Prof. Yoshihisa Hagiwara.

Thesis: Observations of the Process of Language Extinction in the Modern Society:

A Case Study on the Ikema Dialect of Miyako Ryukyuan. (in Japanese)

## Experience

### Research Intern.

Apr 2021 – Present

Pluszero Co.

Project on building a semantic model of Japanese for artificial intelligence.

### Research Assistant

Apr 2021 – Sep 2021

National Institute of Informatics, Japan.

Mentor: Dr. Saku Sugawara.

Research on the interface of natural language understanding and linguistics.

### Cookpad Online Spring Internship 2021

Mar 2021

Cookpad Inc.

One-week program on front-end engineering.

## Publications

### Introducing Morphology in Universal Dependencies Japanese. (*peer-reviewed*)

Chihiro Taguchi, David Chiang.

The sixth workshop on Universal Dependencies (UDW), 2023.

### Mermaid Construction in Lexical Functional Grammar. (*peer-reviewed*)

Chihiro Taguchi.

*Proceedings of the LFG'22 Conference*, 2022.

### Consistent Grammatical Annotation of Turkic Languages for more universal Universal Dependencies. (*peer-reviewed*)

Chihiro Taguchi.

*Workshop on Computational Linguistics on East Asian languages*, 29th International Conference on Head-Driven Phrase Structure Grammar, 2022.

### Mermaid Construction in Lexical Functional Grammar. (*peer-reviewed*)

Chihiro Taguchi.

*LFG22: the 27th International Lexical Functional Grammar Conference*, 2022.

名詞述語を伴う繰り上げ構文としての人魚構文 [Mermaid Construction as raising with a nominal predicate]. (in Japanese, *peer-reviewed*)

Chihiro Taguchi.

*Proceedings of the 164th Conference of the Linguistic Society of Japan*, 2022 .

### Universal Dependencies Treebank for Tatar: Incorporating Intra-Word Code-Switching Information. (*peer-reviewed*)

Chihiro Taguchi, Sei Iwata, Taro Watanabe.

*Workshop on Resources and Technologies for Indigenous, Endangered and Lesser-resourced Languages in Eurasia (EURALI)*, Language Resources and Evaluation Conference, 2022 (*to appear*).

**Mermaid Construction in Tatar.** (*peer-reviewed*)

**Chihiro Taguchi.**

*Proceedings of the 162nd Conference of the Linguistic Society of Japan*, 2021.

**Transliteration for Low-Resource Code-Switching Texts: Building an Automatic Cyrillic-to-Latin Converter for Tatar.** (*peer-reviewed*)

**Chihiro Taguchi**, Yusuke Sakai, Taro Watanabe.

*Proceedings of the Fifth Workshop on Computational Approaches to Linguistic Code-Switching*, North American Chapter of the Association for Computational Linguistics, 2021.

**So-Called “Prepositions” in Somali are Not Prepositions: A Linguistic Approach for Somali POS Tagging.**

**Chihiro Taguchi**, Taro Watanabe.

*Proceedings of the Annual Meeting of the Association of Natural Language Processing*, 2021.

**Raising to Quirky Subject in Tatar.** (*peer-reviewed*)

**Chihiro Taguchi.**

*Proceedings of the 161st Conference of the Linguistic Society of Japan*, 2020.

**Vowel Harmonies in Kazan Tatar: Element Theoretical Approach.** (*peer-reviewed*)

**Chihiro Taguchi.**

*Proceedings of the 159th Conference of the Linguistic Society of Japan*, 2019.

近現代における言語衰退過程の観察と考察－琉球語宮古池間方言を事例に－ [Observations of the Process of Language Extinction in the Modern Society: A Case Study of the Ikema Dialect of Miyako Ryukyuan] (in Japanese).

**Chihiro Taguchi.**

政治学研究 [*Studies in Political Science*], 2018. Keio University Press.

## Projects

**Building a multilingual speech-to-IPA system.**

SLT-Code Hackathon, IEEE, 2023.

**Universal Dependencies: Tatar NMCTT treebank.**

Repository: [https://github.com/UniversalDependencies/UD\\_Tatar-NMCTT](https://github.com/UniversalDependencies/UD_Tatar-NMCTT)

## Talks

**Cross-linguistic analysis of the Mermaid Constructions in LFG.**

**Chihiro Taguchi.**

33rd South of England LFG Meetings, 2022.

**Mermaid Construction as raising with a nominal predicate.**

**Chihiro Taguchi.**

The 74th Language Lunch At Edinburgh. Online. 8 Mar 2022.

**Text Processing of Open-Access Jinghpaw Data on Google Colaboratory.**

**Chihiro Taguchi.**

Follow-up meeting on Intensive Language Course 2019 (Jinghpaw) / The 3rd meeting on Kachin studies.

ILCAA, TUFS. Online. 16 Oct 2021.

## Awards

**JASSO Scholarship for Graduate-level Study Abroad.**

Sep 2021 – Aug 2022

Full tuition fee coverage and monthly stipends.

Ministry of Education, Culture, Sports, Science and Technology, Japan.

**CICP NAIST Multilingual Corpus.**

Jun 2021 – Mar 2022

500,000 JPY.

Nara Institute of Science and Technology.

**Grand Prix Winner**

April 2019

7th International Olympiad of the Tatar Language and Literature.

Ministry of Education and Science, Republic of Tatarstan, Russia.

**Exchange Program Scholarship.**

Sep 2018 – Jun 2019

1.5 mil JPY.

Gyomu Super Japan Dream Foundation.

**Honorable Mention**, Keio University Academic Writing Contest.

Nov 2014

Keio University.

## Skills

**Programming and Softwares**

Familiar: Python, L<sup>A</sup>T<sub>E</sub>X, HTML/CSS, Git.

**Languages**

Native: Japanese

Fluent: English

Advanced: Russian, Tatar

Intermediate: French, German, Korean, Mandarin Chinese

Beginner: Spanish