

# Kunhang Li

kunhangli@g.ecc.u-tokyo.ac.jp | [Website](#) | [GitHub](#)

## EDUCATION

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### Department of Computer Science, The University of Tokyo

*Master in Computer Science*

Tokyo, Japan

10/2023 – Present

- Research Area: Natural Language Processing, Multimodality
- Supervisor: [Yusuke Miyao](#)
- Scholarship: UTokyo Fellowship (10/2023 – 9/2025)

### College of Engineering, Peking University

*Bachelor in Robotics*

Beijing, China

9/2019 – 7/2023

- Research Area: Natural Language Processing, Multimodality
- Supervisor: [Yansong Feng](#)
- Courses: Introduction to Robotics, Bionic Robotics, Machine Learning, Artificial Intelligence, Mathematical Foundations of the Information Age, Foundations of Natural Language Processing

## PROJECTS

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### Development of a multilingual CCG Parser

10/2023 – 3/2024

*The University of Tokyo | Technical Staff*

Supervisor: Yusuke Miyao, Professor, Graduate School of Information Science and Technology

- Abstract: As the only contributor, I implemented a high-performance multilingual CCG parser for both CCGBank and multilingual CCG treebanks from the lab.
- Highlights: Multilingual CCG supertagging and A\* supertag-factored parsing; Treebanks processing, training and evaluation.
- Accomplishments: The project was published ([link](#)) with an easy-to-use interface.

### Development of a CCG Parser

7/2022 – 9/2022

*The University of Tokyo | Research Internship*

Supervisor: Yusuke Miyao, Professor, Graduate School of Information Science and Technology

- Abstract: As the only contributor, I implemented a CCG parser comparable to SOTA ones from scratch, which paves the path to various kinds of phrase structure grammars (especially HPSG).
- Highlights: Hierarchical data class design; Neural CCG supertagging and parsing; Supertag-factored beam search and A\* search.
- Accomplishments: The project was made public on GitHub ([link](#)) with an easy-to-use interface.

### Semantic Analysis of Chinese Sports Instructions

7/2021 – 12/2022

*Peking University | Research Assistant*

Supervisor: Yansong Feng, Associate Professor, Wangxuan Institute of Computer Technology

- Abstract: This project aims to efficiently extract semantic information of bodily spatial states and changes from Chinese sports instructions.
- Highlights: Corpus construction of Chinese sports instructions; Annotation rule design (spatial semantic dependencies in predicate-argument structures); Annotation; Prediction system implementation (preprocessing, training, prediction and evaluation); Visualisation web service maintenance (built on brat).

## PUBLICATIONS

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**Kunhang Li**, Yansong Feng. Motion Generation from Fine-grained Textual Descriptions (LREC-COLING 2024).

- Text2motion is to generate motion sequences from given textual descriptions. We build the first large-scale language-motion dataset with fine-grained textual descriptions, and design a new text2motion model making full use of fine-grained textual information.

## EXPERIENCE

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- Teaching: TA for Foundations of Natural Language Processing (Peking University, April 2023)

## SKILLS

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- Programming and Technologies: Python (PyTorch), MATLAB, C,  $\text{\LaTeX}$ , Markdown
- Natural Languages: Chinese (native), English (proficient), Japanese (basic), German (intermediate in reading), Italian (beginner)