

Kunhang Li

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EDUCATION

Department of Computer Science, The University of Tokyo

Tokyo, Japan

Master in Computer Science

10/2023 – Present

- Research Area: Natural Language Processing
- Scholarship: UTokyo Fellowship (2023 – 2025)

College of Engineering, Peking University

Beijing, China

Bachelor in Robotics

9/2019 – 7/2023

- Courses: Introduction to Robotics, Bionic Robotics, Machine Learning, Artificial Intelligence, Mathematical Foundations of the Information Age, Foundations of Natural Language Processing

PROJECTS AND RESEARCH

Development of a multilingual CCG Parser

10/2023 – 3/2024

The University of Tokyo | Research Assistant

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

- Abstract: Implementing a multilingual parser for multilingual CCG treebanks.
- Highlights: Multilingual CCG supertagging and parsing; Treebanks training and evaluation.
- Accomplishments: The project under development is partly public on GitHub ([link](#)).

Development of a CCG Parser

7/2022 – 9/2022

The University of Tokyo | Research Assistant

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

- Abstract: This project aims to implement a CCG parser comparable to SOTA ones from scratch, which paves the path to various kinds of phrase structure grammar parsers (especially HPSG).
- Highlights: Hierarchical 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

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

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

SKILLS

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