

# Kunhang Li

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## EDUCATION

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

Tokyo, Japan

*Master in Computer Science*

10/2023 – 9/2025 (*Expected*)

- Research Area: Natural Language Processing, Multimodality
- Supervisor: [Yusuke Miyao](#)
- Scholarship: UTokyo Fellowship (10/2023 – 9/2025)
- Courses: [Applied Computer Graphics](#), [Visual Media](#), Reinforcement Learning

### College of Engineering, Peking University

Beijing, China

*Bachelor in Robotics*

9/2019 – 7/2023

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

## PROFESSIONAL EXPERIENCE

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### OMRON SINIC X Corporation

Tokyo, Japan

*Research Intern*

12/2024 – 3/2025 (*Expected*)

- Topic: AI for hypothesis generation
- Abstract: Improving the sophistication of hypothesis generation using Citation Graph (sophistication is assumed to be one of Citation Graph, RAG, or model)

## HIGHLIGHTED PROJECTS

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### Probing LLMs' Knowledge for Human Motion Generation

4/2024 – Present

*The University of Tokyo | Master's Student*

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

- Abstract: This project aims to explore the extent to which Large Language Models (LLMs) understand human motions. In particular, we seek to exploit LLMs' knowledge of human motions to generate 3D animations on a given human model in the computer graphics engine Unity, without any additional training data.

### Motion Generation from Fine-grained Textual Descriptions

3/2023 – 10/2023

*Peking University | Bachelor Graduation Project*

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

- Abstract: We build a large-scale language-motion dataset specializing in fine-grained textual descriptions, FineHumanML3D, by feeding GPT-3.5-turbo with step-by-step instructions with pseudo-code compulsory checks. Accordingly, we design a new text2motion model, FineMotionDiffuse, making full use of fine-grained textual information.
- Highlights: Multimodality; Fine-grained Text2motion; Diffusion Model.
- Accomplishments: Paper ([link](#)) accepted by LREC-COLING 2024.

## OTHER PROJECTS

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### Digital Observatory

4/2024 – Present

*The University of Tokyo | Technical Staff*

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

- Abstract: Utilizing LLMs and other language technologies to predict the impact that global news might have on the global supply chain.

### 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 Intern*

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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- [Motion Generation from Fine-grained Textual Descriptions.](#)

**Kunhang Li**, Yansong Feng.

*The Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING), 2024.*

## TEACHING 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), C, C++, C#, MATLAB, HTML,  $\text{\LaTeX}$ , Markdown
- Natural Languages: Chinese (native), English (proficient, TOEFL 108), Japanese (intermediate), German (intermediate in reading)