

# Chengzu Li

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[\[Personal Page\]](#) ✦ [\[Google Scholar\]](#) ✦ [\[Semantic Scholar\]](#)

## RESEARCH FOCUS

Natural Language Processing, Reasoning, Multimodality, Spatial Reasoning, Natural Language Grounding

## EDUCATION

**Language Technology Lab, University of Cambridge,** *Cambridge, UK*  
*Ph.D. in Computation, Cognition and Language* 2023 - current

- Supervised by Dr. Ivan Vulić, fully funded by Cambridge Trust.

**University of Cambridge** *Cambridge, UK*  
*M.Phil. in Advanced Computer Science; Graduated with Distinction (81.7/100)* 2022 - 2023

- Supervised by Prof. Simone Teufel, fully funded by Cambridge Trust.
- M.Phil. thesis: Generating Instructions for Grounded Robot Navigation (*Distinction*)

**Xi'an Jiaotong University,** *Xi'an, China*  
*B.Eng. in Automation, minor in Fintech; GPA: 91.96/100 (top 5%)* 2018 - 2022

**University of Hong Kong** *Hong Kong*  
*Exchange student in Computer Engineering; GPA: 4.08/4.3* Jan. 2021 - Jun. 2021  
*Student Research Assistant in Dept. of Computer Science* Jul. 2021 - Sept. 2021

## PUBLICATIONS

[Imagine while Reasoning in Space: Multimodal Visualization-of-Thought](#) Jul. 2024 - Jan. 2025  
*arXiv, submitted to ICML 2025*

**Chengzu Li\***, Wenshan Wu\*, Huanyu Zhang, Yan Xia, Shaoguang Mao, Li Dong, Ivan Vulić, Furu Wei

[TOPVIEWRS: Vision-Language Models as Top-View Spatial Reasoners](#) Jan. 2024 - Jun. 2024  
**EMNLP 2024 Oral**, [\[Website\]](#)

*Non-archival at ACL 2023 SpLU Robo Workshop (Oral), ECCV 2024 Eval-Fomo Workshop*

**Chengzu Li\***, Caiqi Zhang\*, Han Zhou, Nigel Collier, Anna Korhonen, Ivan Vulić

[Can Large Language Models Achieve Calibration with In-Context Learning?](#) Sept. 2023 - Dec. 2023  
*Under review at NAACL*

*Non-archival at ICLR 2024 Workshop on Reliable and Responsible Foundation Models*

**Chengzu Li**, Han Zhou, Goran Glavaš, Anna Korhonen, Ivan Vulić

[Semantic Map-based Generation of Navigation Instructions](#) Jan. 2023 - May. 2023  
**COLING-LREC 2024**

**Chengzu Li**, Chao Zhang, Simone Teufel, Rama Sanand Doddipatla, Svetlana Stoyanchev

[Generating Data for Symbolic Language with Large Language Models](#) Jul. 2022 - Dec. 2022  
**EMNLP 2023 Main**

Jiacheng Ye, **Chengzu Li**, Lingpeng Kong, Tao Yu

[Binding Language Models in Symbolic Languages](#) Feb. 2022 - Oct. 2022  
**ICLR 2023 Spotlight**

Zhoujun Cheng\*, Tianbao Xie\*, Peng Shi, **Chengzu Li**, Rahul Nadkarni, Yushi Hu, Caiming Xiong, Dragomir Radev, Mari Ostendorf, Luke Zettlemoyer, Noah A. Smith, Tao Yu

[UnifiedSKG: Unifying and Multi-Tasking Structured Knowledge Grounding with Text-to-Text Language Models](#) Jun. 2021 - Jan. 2022  
**EMNLP 2022 Oral**

Tianbao Xie\*, Chen Henry Wu\*, Peng Shi, Ruiqi Zhong, Torsten Scholak, Michihiro Yasunaga, Chien-Sheng Wu, Ming Zhong, Pengcheng Yin, Sida I. Wang, Victor Zhong, Bailin Wang, **Chengzu Li**, Connor Boyle, Ansong Ni, Ziyu Yao, Dragomir Radev, Caiming Xiong, Lingpeng Kong, Rui Zhang, Noah A. Smith, Luke Zettlemoyer, Tao Yu

(\*: equal contribution)

**PROFESSIONAL EXPERIENCES**

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|  |                       |
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| <b>GenAI Group, Microsoft Research</b>   |                       |
| Research Intern, working with Wenshan Wu on multimodal spatial reasoning.      | Jun. 2024 - Dec. 2024 |
| <b>Toshiba Cambridge Research Laboratory</b>                                   |                       |
| Research Intern, working with Svetlana Stoyanchev, Chao Zhang, Rama Doddipatla | Jan. 2023 - Jul. 2023 |
| <b>Shanghai Artificial Intelligence Laboratory</b>                             |                       |
| Research Intern, NLP Group, with Dr. Lingpeng Kong                             | Oct. 2021 - Jan. 2022 |
| <b>University of Hong Kong (2021 HKU CS Research Internship Programme)</b>     |                       |
| Research Intern, NLP Group, with Dr. Lingpeng Kong and Dr. Tao Yu              | Jul. 2021 - Oct. 2021 |
| <b>Xiamen Dianchu Technology Co., Ltd.</b>                                     |                       |
| Algorithm Engineer (Intern), Research & Development Center                     | Jul. 2020 - Aug. 2020 |

**TEACHING EXPERIENCES**

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|   |  |
|---|--|
| <b>Teaching Assistant</b>                                   | Department of Theoretical and Applied Linguistics, University of Cambridge |
| Li18 Computational Linguistics ( <i>Practical Session</i> ) | 2023   |
| Li18 Computational Linguistics ( <i>Practical Session</i> ) | 2024   |

**SELECTED AWARDS**

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|-------------|--|
| <b>2024</b> | Scholar of Jesus College, Cambridge (for outstanding academic performance) |
| <b>2023</b> | PhD Scholarship from Cambridge Trust (Fully-Funded)                        |
| <b>2022</b> | Masters Scholarship from Cambridge Trust (Fully-Funded)                    |
| <b>2019</b> | National Scholarship (Top 1%, highest honor for undergraduates in China)   |
| <b>2019</b> | Excellent Student (Top 10% among 5000+ students)                           |