Chengzu Li

+44-07783 497657 ⋄ cl917@cam.ac.uk

[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
     arXiv, submitted to ICML 2025   Jul. 2024 - Jan. 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
     EMNLP 2024 Oral, [Website]   Jan. 2024 - Jun. 2024
     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?
     Under review at NAACL   Sept. 2023 - Dec. 2023
     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
     COLING-LREC 2024   Jan. 2023 - May. 2023
     Chengzu Li, Chao Zhang, Simone Teufel, Rama Sanand Doddipatla, Svetlana Stoyanchev

Generating Data for Symbolic Language with Large Language Models
     EMNLP 2023 Main   Jul. 2022 - Dec. 2022
     Jiacheng Ye, **Chengzu Li**, Lingpeng Kong, Tao Yu

Binding Language Models in Symbolic Languages
     ICLR 2023 Spotlight   Feb. 2022 - Oct. 2022
     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
     EMNLP 2022 Oral   Jun. 2021 - Jan. 2022
     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

GenAI Group, Microsoft Research
Research Intern, working with Wenshan Wu on multimodal spatial reasoning.　　　Jun. 2024 - *Dec. 2024*

Toshiba Cambridge Research Laboratory
Research Intern, working with Svetlana Stoyanchev, Chao Zhang, Rama Doddipatla　　Jan. 2023 - Jul. 2023

Shanghai Artificial Intelligence Laboratory
Research Intern, NLP Group, with Dr. Lingpeng Kong　　　Oct. 2021 - Jan. 2022

University of Hong Kong (2021 HKU CS Research Internship Programme)
Research Intern, NLP Group, with Dr. Lingpeng Kong and Dr. Tao Yu　　　Jul. 2021 - Oct. 2021

Xiamen Dianchu Technology Co., Ltd.
Algorithm Engineer (Intern), Research & Development Center　　　Jul. 2020 - Aug. 2020

TEACHING EXPERIENCES

Teaching Assistant　　　Department of Theoretical and Applied Linguistics, University of Cambridge
Li18 Computational Lingustics *(Practical Session)*　　　2023
Li18 Computational Lingustics *(Practical Session)*　　　2024

SELECTED AWARDS

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