**Liangze (Josh) Li**

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# Education

Carnegie Mellon University Pittsburgh, PA

* Master of Language Technologies Expected Aug 2024

Carnegie Mellon University Pittsburgh, PA

* Bachelor of Science in Logic and Computation, Additional Major in Philosophy, High Honors May 2021

EMPLOYMENT

Oracle Labs Burlington, MA

Research Assistant Intern May 2023 — Aug 2023

* Devised a pipeline to train and evaluate LLMs with different Parameter-Efficient Fine-Tuning methods
* Implemented a strategy to contrast and visualize important out-of-domain adaptation ability of LLMs

Carnegie Mellon University Pittsburgh, PA

Teaching Assistant Jan 2023 — Ongoing

* Taught recitations for 100+ students on DL concepts and mentored 30+ students on DL theory and projects
* Reproduced milestone papers including ConvNeXt, ResNet, Attention, and set standards for students

Carnegie Mellon University Pittsburgh, PA

Research Assistant Dec 2022 — Aug 2023

* Led team of 6 to benchmark and deploy large language models (LLM) to build conversational agent
* Applied knowledge distillation and prompting techniques to achieve conversational continuity

Tencent Shenzhen, China

Technical Product Specialist Jul 2021 — Apr 2022

* Led team of 4 to develop data analytics module to predict profit margins over 5000+ SaaS products
* Formulated GMV growth as sentiment analysis task, deployed LLM to achieve 12% growth in select categories

The Optimization Firm Pittsburgh, PA

Data Science Intern May 2020 — Aug 2020

* Reimplemented Python package for ALAMO (Automated Learning of Algebraic Models) for modularity
* Designed product strategies alongside leadership team for ALAMO to strengthen usability

Delta Electronics Wuhan, China

Software Engineering Intern May 2018 — Jul 2018

* Deployed OpenCV to identify assembly line product defect and achieved 7% increase in detection rate
* Implemented neural based model with Octave and PyTorch to predict probable new places of defect

Publications

* Shih-Lun Wu, Yi-Hui Chou, and Liangze Li. *Listener model for the PhotoBook referential game with CLIPScores as implicit reference chain.* ACL 2023.
* Yutian Chen, Hao Kang, Vivian Zhai, Liangze Li, Rita Singh, Bhiksha Raj. *GPT-Sentinel: Distinguishing Human and ChatGPT Generated Content.* EMNLP 2023.

involvements

CMU Blackjack Society Carnegie Mellon University

President Jan 2023 — Current

* Organized Blackjack training and headed development of simulator to benchmark strategies

CMU Student College Executive Committee Carnegie Mellon University

President Aug 2020 — May 2021

* Coordinated with CMU registrar to deliver accreditation for 30+ student-designed and -taught elective courses

# Skills

**Programming Languages**: Python, Java, C(++), R, SQL, Octave/MATLAB, Standard ML, x86 Assembly

**Tools & Frameworks**: Git, GNU/Linux, PyTorch, Terraform, AWS, GCP, Spark, Hadoop, TensorFlow

**Natural Languages**: English, Mandarin, Cantonese, Other Chinese, *Russian (Intermediate)*