


YURUN SONG


PhD ~ University of California, Irvine

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SUMMARY

Yurun Song is a 2nd year PhD student at the University of California, Irvine, focusing on developing efficient AI-driven products for large language model training and inference. He holds an MSc in Advanced Computing from Imperial College London. His research interests include Natural Language Processing, Large Language Model Deployment, and Code Generation. He is supervised by Ian G. Harris at UC, Irvine.

SKILLS

Languages: Python, Java, C++, Matlab, SQL, C.

Technologies: Pytorch, Huggingface, Scikit-Learn, PEFT, Android, Flask

EXPERIENCE

- 12/2022 - 06/2023 **5G CoreNetwork with ChatGPT** Blackberry
Research related to utilize LLM for the purpose of generating code, managing and executing queries in the 5G Core network.
- 12/2021 - 06/2022 **Multi-Intents-Detection for SMS Message** Aktify
Design a Multi-intents Detection Model for Aktify Company. Using their conversation data and classify customs' intents behind. The project is accepted by EMNLP conference in 2023.
- 12/2020 - 11/2021 **Automatic Code Generation** UC, Irvine
Supervised by Prof. Ian. G. Harris, my team members are developing a new AI model to translate Natural Language to Python Code. And the work is accepted by EACL workshop in 2022.
- 12/2020 - 11/2021 **Document Summarization Evaluation** Google Intern
Guided by Dr. Kishore Papineni, I and my partner research on a new topic about document level MT evaluation metric. We focus on the combination of semantic and cross-lingual document metric.
- 02/2021 - 05/2021 **Sentence-level Semantic Evalution** Imperial College, UK
Mentored by Prof. Lucia Specia, we worked on her summer proposal about developing an evaluation metric in Machine Translation. The project is accepted by NACCL-HIT conference in 2023.

EDUCATION

- 09/2022 - Now **Computer Science (PhD.)** University of California, Irvine
Focus on research: Parameter Efficient Finetuning, Multimodal Training, Multi-intent detection
- 09/2019 - 11/2020 **Advanced Computing (MSc.)** Imperial College London, UK
Focus on Courses: Machine learning for Imaging, Natural Language Processing, Computer Vision
- 09/2016 - 06/2019 **Computer Science (BSc.)** King's College London, UK
Focus on Courses: Software Engineering Group Project, Distributed system, Artificial Intelligence

PUBLICATION

- Dec 2023 **LinguaLinked: A Distributed Large Language Model Inference System for Mobile Devices**
• Junchen Zhao*, Yurun Song*, Simeng Liu*, Ian G. Harris, Sangeetha Abdu Jyothi
• Under review ACM MobiSys 2024
- Jun 2023 **PCMID: Multi-Intent Detection through Supervised Prototypical Contrastive Learning**
• Yurun Song*, Junchen Zhao*, Ian G. Harris, Spencer Koehler, Amirali Abdullah
• *Findings of the 2023 Conference on Empirical Methods in Natural Language Processing*
- Jan 2022 **GAP-Gen: Guided Automatic Python Code Generation**
• Junchen Zhao*, Yurun Song*, Ian. G. Harris
• Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics: Student Research Workshop
- Jun 2021 **SentSim: Crosslingual Semantic Evaluation of Machine Translation**
• Yurun Song*, Junchen Zhao*, Lucia Specia
• Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics