

Willy Chung

Ph.D. Candidate at Sorbonne Université, ISIR & Meta, FAIR

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EDUCATION

Sorbonne Université, ISIR, France	Nov 2024 – Now
Ph.D in Computer Science in partnership with Meta, FAIR	
Thesis: "World Models for Multimodal Reasoning and Planning"	
CentraleSupélec, Université Paris-Saclay, France	Sep 2019 – Jun 2024
Master of Engineering in Applied Mathematics	
Hong Kong University of Science and Technology, Hong Kong	Sep 2021 – Oct 2023
M.Phil in Electronic and Computer Engineering – Artificial Intelligence	
Thesis: "Instruction-Tuned Large Language Models for Zero-Shot Task-Oriented Dialogue Systems"	

WORK EXPERIENCE

Full-time PhD (Researcher), Meta, FAIR	Nov 2024 – Now
Conducting full-time doctoral research in partnership with Sorbonne Université on world models and planning	
Developed the first video benchmark for physical world modeling and procedural planning [paper]	
Collaborated with wearable product teams on model integration and smart-glasses planning evaluation	
Developed VL-JEPA, the first multimodal JEPA model for efficient live action recognition [paper]	
Teaching Assistant, HKUST	Jan 2022 – Oct 2023
Designed lab sessions on word embeddings and Transformer models for postgraduate students	
Delivered lectures on generative language models (BERT, GPT-2) for implementation, training and integration	

PROJECTS

InstructTODS: LLMs for End-to-End Task-Oriented Dialogue [code] [paper]	Jan 2023 – Nov 2023
Developed a plug-and-play framework in Python for using LLMs as task-oriented dialogue systems with databases.	
Evaluated LLMs' zero-shot capabilities on subtasks including dialogue state tracking and intent classification.	
Grace: Humanoid Robot for Hospital Care	Oct 2022 – Apr 2023
Designed dialogue module in Dialogflow ES for patient interaction. [paper]	
Developed a Flask webhook backend; presented the system as technical advisor to healthcare professionals.	
A Multitask, Multilingual, Multimodal Evaluation of ChatGPT	Dec 2022 – Apr 2023
Designed and ran evaluations of ChatGPT for task-oriented dialogue systems. [paper]	
Authored documentation and Python tooling for LLM dialogue evaluation protocols.	
Virtual Well-being Companion with Emotion Detection	Aug 2021 – Feb 2023
Built a Dialogflow chatbot for elderly care and analyzed cross-age and cross-lingual transferability for speech recognition across 4 languages. Oral presentation at INTERSPEECH 2023 [paper]	

SKILLS

Languages	French (native), English (fluent, IELTS 8.5/9), Cantonese (native), Chinese (intermediate)
Programming	Python (pandas, scikit-learn, PyTorch, HuggingFace), SQL, MATLAB, bash
Software	DialogFlow, Docker, Git, MongoDB, Neo4j, SolidWorks
Certifications	Deep Learning Specialization, Natural Language Processing Specialization