

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

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|----------------|--|
| 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 |