Han-yu (Henry) Wang

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EDUCATION

The University of Hong Kong *Hong Kong*
Bachelor of Arts and Sciences in Applied Artificial Intelligence **09/2022 – 06/2026**
- Minor in Social Data Science | Expected First-class Honours
- Relevant Coursework: Python, C++, Java, Data Structures and Algorithms, Software Engineering, Multivariable Calculus, Linear Algebra, Probability and Statistics, Machine Learning, Deep Learning, Data Science
- Served as a Student Representative member in the CAES Staff-Student Consultative Committee.
- Serving as a Student Peer Advisor in Faculty of Science.

WORK EXPERIENCE

Hongkong and Shanghai Banking Corporation *Hong Kong*
Student Work Placement Intern **08/2024 – Present**
- Working in digital transformation roles.

Psychometrics and Data Science Lab, HKU *Hong Kong*
Part-time Student Research Assistant **07/2024 – Present**
- Working on advancing generative AI in personalized learning.
- Conducting literature reviews focused on contextual embeddings and transformer-based LLM.
- Developing *website* for PDS Lab.

Speech, Language and Reading Lab, HKU *Hong Kong*
Part-time Student Research Assistant **05/2024 – Present**
- Developing neural network models for simulating human memory systems and learning behaviors.
- Analyze and compare human and model learning processes using experimental and simulation data.
- Conducting literature reviews focused on representation learning, reinforcement learning, and cognitive neuroscience.

Kiwiview International Ltd. *Hastings, New Zealand*
Web Developer & Data Analyst **06/2023 – 12/2023**
- A New Zealand company providing educational services for international study and customized travel solutions.
- Led the design, development, and hosting of the company *website* using HTML, JavaScript, CSS, PHP, and MySQL.
- Gathered, analyzed, and visualized global study and travel trends using various Python libraries.

PROJECTS

XLANG Lab, HKU *Hong Kong*
BRIGHT: A Benchmark for Reasoning-Intensive Information Retrieval **12/2023 – 05/2024**
- A benchmark for testing retrieval systems' ability to perform intensive reasoning on diverse, real-world queries.
- Conducted literature reviews focused on argument mining and information retrieval.
- Analyzed and documented data from public forums for query-document pairing; replicated coding-related queries.
- **BRIGHT: A Realistic and Challenging Benchmark for Reasoning-Intensive Retrieval** 07/2024
  Hongjin Su*, Howard Yen*, Mengzhou Xia*, Weijia Shi, Niklas Muennighoff, **Han-yu Wang**, Haisu Liu, Quan Shi, Zachary S. Siegel, Michael Tang, Ruoxi Sun, Jinsung Yoon, Sercan O. Arik, Danqi Chen, Tao Yu
  Preprint

LANGUAGES, SKILLS, AND HOBBIES

- **Languages:** Chinese: Native Proficiency | English: Full Professional Proficiency
- **Skills:** Python, Java, C++, PyTorch, web development, data analysis, data visualization, machine learning, deep learning.
- **Hobbies:** exploring state-of-the-art AI tools, coding, travelling, photography