**Yihan Tang**

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**PROFESSIONAL SUMMARY**

I am an enthusiast in AI for Healthcare and Natural Language Processing (NLP). I have great passion for applying Deep Learning algorithms and NLP-based ideas to developing solid prediction models for Electronic Health Records (EHR). I am proficient in Python, PyTorch, and R.

**EDUCATION**

**The University of Hong Kong, Hong Kong SAR** Expected May 2026

BASc in Applied Artificial Intelligence, GPA: 3.91/4.30

*Relevant Coursework*: Artificial Intelligence, Programming in C++ and Linux Shell, Linear Algebra, Multivariate Calculus, Linear Statistical Analysis, Data Visualization

**Stanford University, Stanford, CA** June 2023 - August 2023

International Honors Program (IHP), Stanford 2023 Summer Quarter

Concentration in Computer Science

*Relevant Coursework*: Artificial Intelligence (CS221), Computer Organization (CS107), High-Performance Computing (ME344S)

**HONORS AND AWARDS**

Recipient of Summer Research Fellowship (SRF), The University of Hong Kong 2024

Dean’s Honors List, Faculty of Science, The University of Hong Kong 2023 - 2024

Undergraduate Exchange Scholarships for IHP at Stanford University, 2022 - 2023

issued by The University of Hong Kong

**EXPERIENCE**

**Undergraduate Research Assistant** March 2024 - Present

**MedAI Lab, Department of Statistics and Actuarial Science, The University of Hong Kong**

Advisor: Professor Lequan Yu

* Enhance the pre-training of BERT-based Electronic Health Record (EHR) models
* Innovate a hierarchical structure of arranging EHR data to incorporate ontological information
* Replicate and improve a [previous paper (Yang et al., 2023)](https://www.nature.com/articles/s41467-023-43715-z) with an [incomplete codespace](https://github.com/whaleloops/TransformEHR)
* Replicate results of [an important benchmark (Harutyunyan et al., 2019)](https://www.nature.com/articles/s41597-019-0103-9) on [MIMIC-III data](https://physionet.org/content/mimiciii/1.4/)
* Help build a Prototype-guided framework for clinical outcome prediction from irregular Electronic Health Records

**SKILLS**

Python | Deep Learning | Healthcare Data Analysis | Data Visualization | C++

**CERTIFICATIONS**

* Human Research (Data or Specimens Only Research), CITI Program March 2024

**RECOGNITIONS**

* Student Peer Advisor, Faculty of Science, The University of Hong Kong 2024 - 2025
* Founder of Shun Hing College Tech Club, The University of Hong Kong 2024