Huang Songlin
Curriculum Vitae

Contact Information

Email: huangs0@connect.hku.hk, songlinh@nvidia.com

Phone: (+86) 15259264929 (+852) 68567185

Address: A1418B, Shun Hing College, 9 Lung Wah Road, Hong Kong

EDUCATION

BENg(CompSc) the University of Hong Kong   2019-2023

Major: Computer Science, **Minor**: Math and Finance

Concentration: Graph Neural Network, Deep Learning, Data Science, Mathematics

CGPA3.72

RESEARCH EXPERIENCE

HKU Undergraduate Research Fellowship Programme   Jun 2022 - Aug 2022

Department of Computer Science, the University of Hong Kong

Supervisor: Dr. Huang, Chao

- Research on the application of graph-based methods on the multi-agent reinforcement learning.

Research Assistant   Feb 2022 - May 2022

Department of Mathematics, the University of Hong Kong

Supervisor: Chair Professor Michael Kwok Po NG

- Study the application of meta-learning such as neural process, and generative model such as variational auto-encoder on the near-cold start recommendation systems.

HKU CS Summer Research Assistant Internship   Jul 2021 - Aug 2021

Department of Computer Science, the University of Hong Kong

Supervisor: Professor W. Chuan

- Propose new online inference acceleration framework for graph neural network on dynamic graph based upon the locality of message-passing models.

INDUSTRIAL EXPERIENCE

Machine Learning Software Architect Intern   Jun 2022 - Aug 2022

NVIDIA

Manager: Mr. Li Xiaowei

- Improve the trustability of NVIDIA AutoML system by providing evidence with prediction using explainable machine learning method such as SHAP, and detecting data drift using statistical method such as Hoeffding's bounds.

TEACHING EXPERIENCE

Student Teaching Assistant   Sep 2021 - Dec 2021

Department of Mathematics, the University of Hong Kong

Course: MATH2211 Multivariable Calculus

Instructor: Dr. Tak Wing CHING

- Holding weekly Revision Classes and consultation hours.
- Preparing slides by Latex, and visualizations by Matplotlib.

Student Teaching Assistant   Sep 2021 - Dec 2021

Department of Computer Science, the University of Hong Kong

Course: COMP2396 Objected-oriented programming and Java

Instructor: Dr. Wong, Kenneth K.Y.

- Assisting question answering in weekly tutorial session.

OTHER PROFESSIONAL SKILLS

Deep Learning: Graph Neural Network, Computer Vision, Pytorch and Tensorflow

Data Science: EDA, SQL, NoSQL, Machine Learning, Numpy, Pandas and Matplotlib

Mathematics: Linear Algebra, Calculus, Optimization, Probability, Discrete Math

Full-stack Web: RESTful API, RPC, HTML+CSS+JS/React/Vue

Other Course: Operating System, Algorithm Design and Analysis (Advanced), Data Structure, Computer Network, Computer Organization, Software Engineering.

Course to take in year 2022-2023: Natural Language Processing, Quantum Informatics, Data Analysis for AIoT, Distributed and Parallel Computing