# HUANG SONGLIN

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## EDUCATION

***BENg(CompSc)***, the University of Hong Kong Sep 2019 - Present
**Major**: Computer Science, **Minor**: Mathematics, Finance
**Core Courses**: Optimization, Computer Vision, Natural Language Processing, Quantum Computing
**CGPA 3.72**, Dean's Honors List 2020-2021, Expect to Graduate in Jun 2023

## SKILLS

**Deep Learning**: GNN, Meta-Learning, Inference Acceleration, CV, NLP, with Pytorch and JAX
**Machine Learning**: Hyper-parameter Tuning, Drift Detection, Machine Learning Explainability, Data Pipeline
**Data Analysis**: Python workflow with Numpy, Pandas, Matplotlib, MySQL, MongoDB, Big Data with Spark
**Cloud Infrastructure**: Microservices, Docker, Kubernetes, Kafka, RESTful API
**Full Stack Web**: Frontend with React or Vue.js, Backend with Python or Golang
**Programming Fundamentals**: Linux/Unix, Git, Agile with Scrum, Python, Java, Golang
**Mathematics**: Linear Algebra, Calculus, Optimization, Probability, and Statistics

## INDUSTRIAL EXPERIENCE

**Machine Learning Platform Architect Intern** Jun 2022 - Aug 2022
NVIDIA, Shanghai
• Improve the trustability of NVIDIA MLaaS system by providing evidence from explainable AI methods
• Improve the reliability of MLaaS system by integrating data drift detection
• Improve the stability of MLaaS system by adding model service monitoring and auto-redeployment

## RESEARCH EXPERIENCE

**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, and further investigate the memory mechanism and disentangled representation in meta-learning.

**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.

## TEACHING EXPERIENCE

**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.

**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 Q&A sessions, preparing slides by Latex, and visualizations by Matplotlib.