Yuen-Hei Yeung yy@nyu.edu | 🏶 | G | O

Education

Courant Institute of Mathematical Sciences, New York University Master of Science in Computer Science, CGPA 4.0/4.0 Coursework: GPU Architecture (Project) City University of Hong Kong	New York, United States Sep 2024 – May 2020
City University of Hong Kong	5ep 2024 – May 2020
Bachelor of Science in Computer Science, CGPA 3.52/4.30	Hong Kong S.A.R., China Sep 2018 – May 2022
Research Experience	
Agentic Learning AI Lab, NYU Courant Institute	New York, United States
Research Assistant under Prof. Mengye RenWorking on self-supervised learning method on dynamics planning for imitation learning	Dec 2024 – Presen ng
Nvidia AI Technology Center	Hong Kong S.A.R., China
 Research Assistant under Prof. Charles K.C. Cheung Extended SVD-based transfer learning methods for CNNs to transformer-based models on 2% improvements on top-1 accuracy with 10x fewer parameters than original fine-tuning 	Jun 2023 – Aug 202 n object detection tasks, obtain
Wu Lab, School of Molecular and Cellular Biology, UIUC	Illinois, United State
Research Assistant under Prof. Nicholas C. Wu	Jul $2022 - Dec 2022$
• Implemented random forests (PR AUC 67%) in Keras and pre-trained protein-sequence lang 75%) for 'vaccine antibody-human antigen' binding prediction	
Department of Computer Science, City University of Hong Kong	Hong Kong S.A.R., Chin
Research Assistant under Prof. Rynson W.H. Lau	Apr 2021 – Jun 202
 Constructed 2 datasets (over 4k images) for 'Transparent Object Detection' with depth maps Proposed transformer-based model for 'Transparent Object Detection' with 3% improvement 	
Manuscripts	
Y. Wang, H. Lv, R. Lei, Y.H. Yeung et al., An explainable language model for antibody specificit prediction using curated influenza hemagglutinin antibodies	ty <u>Immunity</u> Aug 202
Y.H. Yeung , Stella X.H. Zhu, George Z.J. Chen et al., Method for Roadside Sensor Placement C with Reinforcement Learning in Simulation (submitted to US and China; projected publication da	ate Jul 2025)
 J. Lin*, Y.H. Yeung*, R. Lau, Exploiting Semantic Relations for Glass Surface Detection J. Lin*, Y.H. Yeung*, R. Lau, Leveraging RGB-Depth with Cross-Modal Context for Glass Surface 	<u>NeurIPS</u> Nov 202 ace Detection AAAI Jun 202
WORK EXPERIENCE	<u></u>
Hong Kong Hospital Authority	Hong Kong S.A.R., Chin
Research Officer in AI & Data Collaboration Lab	Oct 2023 – Aug 202
 Developed LLM applications with LangChain that processes 1.2M quarterly medical trans Trained YOLOv5 for parasite classification and obtained 98.6% accuracy 	actions for over 40 hospitals
Hong Kong Applied Science and Technology Research Institute	Hong Kong S.A.R., Chin
Engineering Associate in Smart Mobility Technologies Group	Apr 2023 – Oct 202
• Reproduced academic papers for product development, extended with patent invention	
- Developed backend integration of Smart Mobility simulators (CARLA and SUMO) using ${\bf F}$	lask
Siemens Ltd.	Hong Kong S.A.R., Chin
Engineer Assistant Intern in Department of Smart Infrastructure	Jun 2020 – Jun 202
 Built CMS frontend for energy consumption monitoring using Angular Developed automation script for data pre-processing in Python (reducing man-days from 30) 	0 to 1)
Community & Leaderships	
National Academy of Engineering Graduate, Grand Challenges Scholars Program	Nov 202

National Academy of Engineering Graduate, Grand Challenges Scholars Program	Nov 2022
Google Developer Groups Core Team Member, Google Developer Student Club	Sep $2020 - Aug 2021$
City University of Hong Kong Teaching Assistant, CS2312 Problem Solving and Programming in Java	va Sep – Dec 2020
City University of Hong Kong Mentor, Student Mentoring Scheme	Sep $2019 - May 2022$
City University of Hong Kong 3 rd place, CityHack (developed crowd counting prototype for seat mana	agement) Jan 2019