KAM WOH NG

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EDUCATION

University of Surrey (Guildford, England)   *October 2021 - June 2025*

Vision, Speech and Signal Processing Ph.D.

◇ Under the supervision of Prof. Tao Xiang and Prof. Yi-Zhe Song.

◇ Two works on deep hashing were accepted in NeurIPS 2021 and BMVC 2023 respectively.

◇ A work on fine-grained representation was accepted in FGVC11 (CVPRW 2024) and received best paper award.

◇ Completed a work on AIGC [Link].

◇ Completed a work on Fine-grained 3D generation [Link].

◇ Ph.D. Thesis: [Link].

University of Malaya (Kuala Lumpur, Malaysia)   *August 2015 - January 2019*

Bachelor of Computer Science (Artificial Intelligence)   *CGPA: 3.89/4.00*

◇ Final year project was accepted in AAAI-19 workshop.

TECHNICAL EXPERTISE

Programming & Scripting	Python, Java, C/C++/C#, Bash, HTML5/CSS3/Javascript
Development Framework	ReactJS, Flask, Unity3D
Deep Learning Framework	PyTorch, Tensorflow

WORKING EXPERIENCES

Meta Platforms   *Aug 2024 - Present*

London, United Kingdom

Research Scientist Intern, AI Research Scientist

◇ Working on Video Diffusion Models.

◇ Working on Generative Neural Rendering.

Huawei   *Feb 2024 - July 2024*

London, United Kingdom

Research Scientist Intern

◇ Working on AIGC.

◇ Completed a work on Fine-grained 3D generation.

AI Department   *Nov 2019 - Mar 2021*

WeBank, Shenzhen, China

AI Research Engineer

◇ Research focus on security in Federated Learning (such as privacy protection, adversarial defense).

◇ Two works on protecting Intellectual Property Right of DNN were accepted in CVPR 2021 and TPAMI 2021.

◇ A work on deep hashing was accepted in IJCAI 2020.

◇ Contributed in the workshops of IEEE BigData 2020 and AAAI 2021.

◇ Contributed in editing a Springer book – Federated Learning.

Center of Image and Signal Processing   *Feb 2019 - Oct 2019*

University of Malaya, Kuala Lumpur, Malaysia

Research Assistant

◇ Under the supervision of Professor Dr. Chan Chee Seng (UM) and Dr. Lixin Fan (WeBank).

◇ Research focus on AI security.

◇ A work on protecting Intellectual Property Right of DNN was accepted in NeurIPS 2019.

MoneyLion Malaysia Sdn Bhd   *Mar 2019 - Aug 2019*

Kuala Lumpur, Malaysia

AI Researcher (Part-time)

◇ Research focus on analyzing transaction using interpretable machine learning .

Xendity Pte Ltd *Sep 2018 - Feb 2019*
Kuala Lumpur, Malaysia
AI Engineer
◇ Responsible to build and improve OCR technology for e-KYC system.

Center of Image and Signal Processing *Jul 2016 - Aug 2016*
University of Malaya, Kuala Lumpur, Malaysia
Research Intern
◇ Under supervision of Dr. Chan Chee Seng.
◇ Built a deep learning based Malaysia car plate recognition system.

TEACHING EXPERIENCE

Centre for Vision, Speech and Signal Processing *Feb 2023 - Dec 2023*
University of Surrey, Guildford, United Kingdom
Teaching Assistant
◇ EEEM071 Advanced Topics in Computer Vision and Deep Learning
◇ EEEM066 Fundamental of Machine Learning

Faculty of Computer Science and Information Technology *Sep 2016 - Dec 2018*
University of Malaya, Kuala Lumpur, Malaysia
Teaching Assistant
◇ WIX1002 Fundamentals of Programming
◇ WIA1002 Data Structures

ACHIEVEMENT HIGHLIGHTS

AI RELATED

eBay eProduct Visual Search Challenge - FGVC9 (CVPR 2022)	Second Place	[Link]
IKCEST Bigdata Challenge 2019	36th Place	[Link]
Grab AI for S.E.A. Challenge	Top 10	[Link]

COMPETITIVE PROGRAMMING

E-Genting Programming Competition 2018	First Prize	[Link]
ACM-ICPC Malaysia al-Khawarizmi National Programming Contest 2018	Second Prize	[Link]
Prosolve National Programming Competition 2018	Third Prize	
UNICODE Programming Contest 2017	Second Runner-Up	
ATURKREATIF'17 Open Programming Competition	First Runner-Up	
E-Genting Programming Competition 2017	Second Prize	[Link]

OTHERS

KPMG Security Challenge 2018 Malaysia	4th Place	
HEREMYHACK Virtual Hackathon 2018	Second Prize	[Link]
Park of the Future Hackathon 2018	Open Category Winner	[Link]
F-Secure Intervarsity Cyber Security Competition 2017	Top 5	[Link]
Sunway CityHack 2017	First Prize	
Unlock Asia AI Robot & Big Data Hackathon 2016	First Prize	

AWARDS

Best Paper Award *CVPRW 2024*
The Eleventh Workshop on Fine-Grained Visual Categorization (FGVC11)
Awarded for my paper on fine-grained representation learning for image retrieval.

Dean's Special Award *May 2019*
Faculty of Computer Science and Information Technology, University of Malaya
Awarded for my exceptional co-curricular and academic achievements.

Excellent Academic Project Award   *May 2019*
Faculty of Computer Science and Information Technology, University of Malaya
Selected and awarded as the best academic project in the department. Work is accepted in AAAI-19 Workshop on Network Interpretability for Deep Learning.

ADDITIONAL EXPERIENCE

1. Developed an open source image retrieval project – Fast Image Retrieval (FIRe) which implemented most of the major binary hashing methods. [GitHub]

2. Springer book: "Federated Learning: Privacy and Incentive" organizing committee. [Link]

3. AAAI 2021 workshop: "Towards Robust, Secure and Efficient Machine Learning" organizing committee. [Link]

4. Contributed for development of CosMos, a system to monitor COVID-19 patients in Malaysia. [News]

5. Experienced in OCR engine development.