

PHAM TRUNG KIEN

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RESEARCH INTERESTS

My current research interests lie in the realm of **Multimodal Generation and Understanding** ([AVTok, ECCV'26], [SpA2V, MM'25]) with target expansion to Unified Multisensory World Model. Previously, I have worked on some generative applications of **Diffusion and Flow Matching Models** such as *Image Editing* (SteerFlow, arXiv'26), *Image Composition* (TALE, MM'24), and involved in projects related to **Visual Perception** for *Autonomous Driving* (CCSU, ICRA'24) and *Humanoid Robotics* (RO-MAN'24).

EDUCATION BACKGROUND

Hong Kong University of Science and Technology	Anticipated PhD Graduation: 09/2028
• PhD Student in Computer Science and Engineering <i>Co-advised by Prof. Long Chen and Prof. Qifeng Chen</i>	2024 - Present
• MPhil Student in Computer Science and Engineering <i>Advised by Prof. Qifeng Chen</i>	2022 - 2024
• BSc in Data Science and Computer Science - First Class Honors S.S. Chern Class Graduate	2018 - 2022

PUBLICATIONS

[1] **AVTok: 1D Unified Tokenization for Holistic Audio-Video Generation**
Kien T. Pham, I Chieh Chen, Qifeng Chen, Long Chen
ECCV 2026. [PAGE] [PDF]

[2] **SteerFlow: Steering Rectified Flows for Faithful Inversion-Based Image Editing**
Thinh Dao, Zhen Wang, **Kien T. Pham**, Long Chen
Preprint 2026. [PDF]

[3] **SpA2V: Harnessing Spatial Auditory Cues for Audio-driven Spatially-aware Video Generation**
Kien T. Pham, Yingqing He, Yazhou Xing, Qifeng Chen, Long Chen
ACM MM 2025. [PAGE] [PDF]

[4] **TALE: Training-free Cross-domain Image Composition via Adaptive Latent Manipulation and Energy-guided Optimization**
Kien T. Pham, Jingye Chen, Qifeng Chen
ACM MM 2024. [PAGE] [CODE] [PDF]

[5] **A Dialogue System Architecture for Humanoid Robots Targeting Patient Interview Tasks**
Yifan Shen, Dingdong Liu, Yejin Bang, Ho Shu Chan, Rita Frieske, Hoo Choun Chung, Jay Nieves, Tianjia Zhang, **Kien T. Pham**, Wai Yi Rosita Cheng, Yini Fang, Qifeng Chen, Pascale Fung, Xiaojuan Ma, Bertram Shi
RO-MAN 2024. [PDF]

[6] **Cross-Cluster Shifting for Efficient and Effective 3D Object Detection in Autonomous Driving**
Zhili Chen, **Kien T. Pham**, Maosheng Ye, Zhiqiang Shen, Qifeng Chen
ICRA 2024. [PDF]

PROFESSIONAL SERVICES

Conference Reviewer	NeurIPS, ICCV, ICML, CVPR, ICLR, AISTAT, BMVC, ACCV, AAAI	Journal Reviewer	TIP, TCSVT
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EXPERIENCES

Celia Large Model Application Lab @ HKRC , Hong Kong, On-site Research Intern <i>Description:</i> R&D on Large Audio-Video Creation Models	Fed. 2026 - Present
DeepRoute.ai , Shenzhen, On-site Algorithm Research Intern <i>Description:</i> R&D on VLA model for Autonomous Driving System	Mar. 2025 - Sep. 2025
viAct , Hong Kong, Remote AI Trainee <i>Description:</i> Develop AI-assisted Safety Measures for ConTech Applications	Apr. 2021 - Aug. 2021
GMO-Z.com RUNSYSTEM , Vietnam, On-site AI Intern <i>Description:</i> Develop OCR model for information extraction from documents	Feb. 2020 - May. 2020

ACHIEVEMENTS

• Postgraduate Studentship	2022 - Present
• RedBird Academic Excellence Award	2024 - 2025
• UGC RTG Award, Hong Kong University of Science and Technology	2024 - 2025
• The S.S. Chern Class Admission, Talent, and Graduation Scholarships	2019 - 2022
• Heart Free Lodge Scholarship	2018 - 2019
• University Scholarship	2018 - 2022
• Dean's List	2018 - 2022