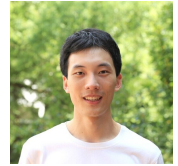


Hongjun Wang

✉ hjwang@connect.hku.hk

🌐 <https://whj363636.github.io>



Education

- 2022 – 2026 (Expected) ◇ **The University of Hong Kong**
Ph.D. in Department of Statistics and Actuarial Science
Field of Study: Computer Vision and Machine Learning
- 2018 – 2021 ◇ **Sun Yat-sen University**
M.Sc. in Department of Computer Science
Field of Study: Trustworthy Machine Learning
National Scholarship (the highest honor in China) (**1st/442**)
- 2014 – 2018 ◇ **Sun Yat-sen University**
B.E. in Department of Computer Science
National Scholarship (the highest honor in China) (**1st/72**)

Experience

- 2024 – 2025 ◇ **NVIDIA**, Learning and Perception Research Group, USA *Research Intern*
Topic: Efficient visual foundation model
- ◇ **Huawei**, Theory Lab, HKSAR *Project cooperation*
Topic: Optical flow estimation in complex scenarios, involving extreme or complex lighting conditions, small objects, and large displacements
- 2021 – 2022 ◇ **Peking University**, Beijing, China *Research Intern*
Topic: Trustworthy Machine Learning

Publications

- 1 **H. Wang**, Y. Jiang, C. McCarthy, D. Wehr, H. Ye, X. Li, K. C. Cheung, W. Byeon, J. Gu, K. Chen, K. Han, H. Yin, P. Molchanov, J. Kautz, and S. Liu, “Gspn-2: Efficient parallel sequence modeling”, in *NeurIPS*, 2025.
- 2 K.-Y. Lin, **H. Wang**, W. Ren, and K. Han, “Panoptic captioning: Seeking an equivalency bridge for image and text”, in *NeurIPS*, 2025.
- 3 W. Ren, **H. Wang**, T. Xiao, and K. Han, “Fin3r: Fine-tuning feed-forward 3d reconstruction models via monocular knowledge distillation”, in *NeurIPS*, 2025.
- 4 M. Li, L. Liu, **H. Wang**, H. Chen, X. Gu, S. Liu, D. Gong, J. Zhao, Z. Lan, and J. Li, “Multiedit: Advancing instruction-based image editing on diverse and challenging tasks”, *arXiv preprint arXiv: 2509.14638*, 2025.
- 5 **H. Wang**, W. Byeon, J. Xu, J. Gu, K. C. Cheung, X. Wang, K. Han, J. Kautz, and S. Liu, “Parallel sequence modeling via generalized spatial propagation network”, in *CVPR*, 2025.
- 6 **H. Wang**, S. Vaze, and K. Han, “Hilo: A learning framework for generalized category discovery robust to domain shifts”, in *ICLR*, 2025.
- 7 **H. Wang**, S. Vaze, and K. Han, “Dissecting out-of-distribution detection and open-set recognition: A critical analysis of methods and benchmarks”, *IJCV*, 2024.

- 8 **H. Wang**, S. Vaze, and K. Han, “Sptnet: An efficient alternative framework for generalized category discovery with spatial prompt tuning”, in *ICLR*, 2024.
- 9 **H. Wang** and Y. Wang, “Generalist: Decoupling natural and robust generalization”, in *CVPR*, (Highlight, Top 2.5%), 2023.
- 10 Y. Xu, P. Dai, Z. Li, **H. Wang**, and X. Cao, “The best protection is attack: Fooling scene text recognition with minimal pixels”, *TIFS*, 2023.
- 11 **H. Wang** and Y. Wang, “Self-ensemble adversarial training for improved robustness”, in *ICLR*, 2022.
- 12 **H. Wang**, G. Li, X. Liu, and L. Lin, “A hamiltonian monte carlo method for probabilistic adversarial attack and learning”, *TPAMI*, 2020.
- 13 **H. Wang**, G. Wang, Y. Li, D. Zhang, and L. Lin, “Transferable, controllable, and inconspicuous adversarial attacks on person re-identification with deep mis-ranking”, in *CVPR*, (Oral, Top 3%), 2020.
- 14 **H. Wang**, G. Wang, G. Li, and L. Lin, “Camdrop: A new explanation of dropout and a guided regularization method for deep neural networks”, in *CIKM*, (Oral), 2019.
- 15 L. Liu, **H. Wang**, G. Li, W. Ouyang, and L. Lin, “Crowd counting using deep recurrent spatial-aware network”, in *IJCAI*, (Oral), 2018.

Miscellaneous Experience

Awards and Achievements

- 2021 and 2018
 - ◇ Outstanding Graduate, Sun Yat-sen University
 - ◇ Outstanding Undergraduate Thesis Award, Sun Yat-sen University
- 2020 and 2017
 - ◇ *National Scholarship*, Minister of Education of China
- 2016 – 2020
 - ◇ Outstanding Student Scholarship, Sun Yat-sen University
- 2017
 - ◇ *2nd Prize ACM Programming Contest*, Sun Yat-sen University
- 2015 – 2018
 - ◇ Outstanding Student Scholarship, Sun Yat-sen University
- 2016
 - ◇ Meritorious Winner, Mathematical Contest in Modeling/Interdisciplinary Contest in Modeling
- 2013
 - ◇ *National First-level Athlete of Swimming*, General Administration of Sport of China

Services

- 2019 – 2024
 - ◇ Reviewer of ECCV (2024), CVPR (2025-2019), ICCV (2024), NeurIPS (2025-2022), ICML (2023-2022), AAAI (2023), ICLR (2024-2022), WACV (2025)
 - ◇ Reviewer of TIP, Neurocomputing, Machine Learning
- 2022 – 2024
 - ◇ Teaching Assistant in “Image Processing and Computer Vision”
 - ◇ Teaching Assistant in “Programming for Data Science”
- 2017
 - ◇ Vice-president of Baidu Elite Club
- 2016
 - ◇ Vice-president of Swimming Association