

# Junlin Han

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Last Updated: May 1, 2025

## EDUCATION

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<b>University of Oxford</b> PhD (Dphil) in Computer Vision Supervised by <a href="#">Prof. Philip Torr</a>	01.2024 – ongoing Oxford, UK
<b>Australian National University</b> Bachelor of Information Technology (Honours) GPA: 3.95/4.00	02.2019 – 07.2023 Canberra, Australia First-Class Honours

## RESEARCH INTERESTS

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My research focus on computer vision, deep learning, and artificial intelligence, with a particular concentration on studying data. This entails exploring:

- (1) **Generation** and **manipulation** of 2D, 3D, and 4D visual data,
- (2) Use **augmented, synthetic, and distilled** data for training AI systems,
- (3) Understand the **role of data** in AI.

## EXPERIENCE

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<b>PhD Student Researcher</b> GenAI Llama, Meta Host: <a href="#">Dr. Filippos Kokkinos</a> Topics: 3D&4D generation, MLLM	10.2023 – ongoing London, UK
<b>Research Intern</b> AIML, University of Adelaide Advisor: <a href="#">Prof. Ian Reid</a> Topics: Data-centric AI, memorability	12.2021 – 05.2023 Adelaide, Australia
<b>Research Student</b> Data61-CSIRO & Australian National University Advisors: <a href="#">Dr. Lars Petersson</a> and <a href="#">Prof. Hongdong Li</a> Topics: Generative models, self-supervised learning	08.2020 – 05.2023 Canberra, Australia

## SELECTED PUBLICATIONS (AS LEADING AUTHOR)

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See my [webpage](#) for full publications, codes, datasets, and project pages, etc.

5. Flex3D: Feed-Forward 3D Generation With Flexible Reconstruction Model And Input View Curation  
**Junlin Han**, Jianyuan Wang, Andrea Vedaldi, Philip Torr, Filippos Kokkinos  
*International Conference on Machine Learning (ICML)*, 2025
4. VFusion3D: Learning Scalable 3D Generative Models from Video Diffusion Models  
**Junlin Han\***, Filippos Kokkinos\*, Philip Torr  
*European Conference on Computer Vision (ECCV)*, 2024
3. What Images are More Memorable to Machines?  
**Junlin Han**, Huangying Zhan, Jie Hong, Pengfei Fang, Hongdong Li, Lars Petersson, Ian Reid  
*Preprint*
2. You Only Cut Once: Boosting Data Augmentation with a Single Cut  
**Junlin Han**, Pengfei Fang, Weihao Li, Jie Hong, Ali Armin, Ian Reid, Lars Petersson, Hongdong Li  
*International Conference on Machine Learning (ICML)*, 2022

1. Blind Image Decomposition

**Junlin Han**, Weihao Li, Pengfei Fang, Chunyi Sun, Jie Hong, Ali Armin, Lars Petersson, Hongdong Li  
*European Conference on Computer Vision (ECCV)*, 2022

ACADEMIC SERVICES

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**Workshop organization:** Foundation Models in the Wild, ICML 2024, ICLR 2025

**Conference review:** CVPR 2022 2023 2024 2025, ICCV 2023 2025, ECCV 2022 2024, ICML 2022 2024 2025, NeurIPS 2022 2023 2025, ICLR 2023 2024 2025, COLM 2025, SIGGRAPH Asia 2024, ACCV 2022, BMVC 2023, WACV 2024, AAAI 2023

**Journal review:** Transactions on Pattern Analysis and Machine Intelligence (TPAMI), International Journal of Computer Vision (IJCV), Transactions on Image Processing (TIP), Transactions on Geoscience and Remote Sensing (TGRS)

TECHNICAL SKILLS

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**Programming Languages:** Proficient in Python, MATLAB

Familiar with Java, SQL, HTML/CSS, R, Haskell, Assembly (ARMV7)

**Developer Tools:** Git, Latex, VS Code, Visual Studio, PyCharm, IntelliJ, Jupyter Notebook

**Libraries:** PyTorch, NumPy

AWARDS

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**Meta PhD Scholarship** 2023  
*for PhD research at University of Oxford*

**Chancellor's Letter of Commendation** 2022  
*for best academic performance at Australian National University*

**Top Reviewer** 2022  
*NeurIPS (Conference on Neural Information Processing Systems)*

**Second Best Presentation Award** 2021  
*AIM (Active Integrated Matter) Conference*

**Top-up Scholarship** 2021  
*for research work at Data61-CSIRO*

**Undergraduate Vacation Scholarship** 2020  
*for summer research at Data61-CSIRO*

FULL PUBLICATIONS

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22. Unsupervised Decomposition of 3D Shapes into Expressive and Editable Extruded Profile Primitives  
Chunyi Sun, **Junlin Han**, Runjia Li, Wejian Deng, Dylan Campbell, Stephen Gould  
*ACM Special Interest Group on Computer Graphics and Interactive Techniques (SIGGRAPH)*, 2025
21. Flex3D: Feed-Forward 3D Generation With Flexible Reconstruction Model And Input View Curation  
**Junlin Han**, Jianyuan Wang, Andrea Vedaldi, Philip Torr, Filippos Kokkinos  
*International Conference on Machine Learning (ICML)*, 2025
20. VGRP-Bench: Visual Grid Reasoning Puzzle Benchmark for Large Vision-Language Models  
Yufan Ren, Konstantinos Tertikas, Shalini Maiti, **Junlin Han**, Tong Zhang, Sabine Ssstrunk, Filippos Kokkinos  
*Preprint*
19. Generalized Few-shot 3D Point Cloud Segmentation with Vision-Language Model  
Zhaochong An, Guolei Sun, Yun Liu, Runjia Li, **Junlin Han**, Ender Konukoglu, Serge Belongie  
*Conference on Computer Vision and Pattern Recognition (CVPR)*, 2025

18. DreamBeast: Distilling 3D Fantastical Animals with Part-Aware Knowledge Transfer  
Runjia Li, **Junlin Han**, Luke Melas-Kyriazi, Chunyi Sun, Zhaochong An, Zhongrui Gui, Shuyang Sun, Philip Torr, Tomas Jakab  
*International Conference on 3D Vision (3DV), 2025*
17. 3D-GPT: Procedural 3D Modeling with Large Language Models  
Chunyi Sun\*, **Junlin Han**\*, Weijian Deng, Xinlong Wang, Zishan Qin, Stephen Gould  
*International Conference on 3D Vision (3DV), 2025*
16. Semantic Score Distillation Sampling for Compositional Text-to-3D Generation  
Ling Yang, Zixiang Zhang, **Junlin Han**, Bohan Zeng, Runjia Li, Philip Torr, Wentao Zhang  
*Preprint*
15. Learning-based Multi-View Stereo: A Survey  
Fangjinhua Wang, Qingtian Zhu, Di Chang, Quankai Gao, **Junlin Han**, Tong Zhang, Richard Hartley, Marc Pollefeys  
*Preprint*
14. VFusion3D: Learning Scalable 3D Generative Models from Video Diffusion Models  
**Junlin Han**\*, Filippos Kokkinos\*, Philip Torr  
*European Conference on Computer Vision (ECCV), 2024*
13. Strong and Controllable Blind Image Decomposition  
Zeyu Zhang\*, **Junlin Han**\*, Chenhui Gou\*, Hongdong Li, Liang Zheng  
*Preprint*
12. How Many Unicorns Are in This Image? A Safety Evaluation Benchmark for Vision LLMs  
Haoqin Tu\*, Chenhang Cui\*, Zijun Wang\*, Yiyang Zhou, Bingchen Zhao, **Junlin Han**, Wangchunshu Zhou, Huaxiu Yao, Cihang Xie  
*European Conference on Computer Vision (ECCV), 2024*
11. NeRFEditor: Differentiable Style Decomposition for 3D Scene Editing  
Chunyi Sun, Yanbin Liu, **Junlin Han**, Stephen Gould  
*IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2024*
10. Hyperbolic Audio-visual Zero-shot Learning  
Jie Hong, Zeeshan Hayder, **Junlin Han**, Pengfei Fang, Mehrtash Harandi, Lars Petersson  
*International Conference on Computer Vision (ICCV), 2023*
9. Curved Geometric Networks for Visual Anomaly Recognition  
Jie Hong, Pengfei Fang, Weihao Li, **Junlin Han**, Lars Petersson, Mehrtash Harandi  
*IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2023*
8. What Images are More Memorable to Machines?  
**Junlin Han**, Huangying Zhan, Jie Hong, Pengfei Fang, Hongdong Li, Lars Petersson, Ian Reid  
*Preprint*
7. GOSS: Towards Generalized Open-set Semantic Segmentation  
Jie Hong, Weihao Li, **Junlin Han**, Jiyang Zheng, Pengfei Fang, Mehrtash Harandi, Lars Petersson  
*The Visual Computer, 2023*
6. CropMix: Sampling a Rich Input Distribution via Multi-Scale Cropping  
**Junlin Han**, Lars Petersson, Hongdong Li, Ian Reid  
*Preprint*

5. You Only Cut Once: Boosting Data Augmentation with a Single Cut  
**Junlin Han**, Pengfei Fang, Weihao Li, Jie Hong, Ali Armin, Ian Reid, Lars Petersson, Hongdong Li  
*International Conference on Machine Learning (ICML)*, 2022
4. Blind Image Decomposition  
**Junlin Han**, Weihao Li, Pengfei Fang, Chunyi Sun, Jie Hong, Ali Armin, Lars Petersson, Hongdong Li  
*European Conference on Computer Vision (ECCV)*, 2022
3. Underwater Image Restoration via Contrastive Learning and a Real-world Dataset  
**Junlin Han**, Mehrdad Shoeiby, Tim Malthus, Elizabeth Botha, Janet Anstee, Saeed Anwar, Ran Wei, Ali Armin, Hongdong Li, Lars Petersson  
*Remote Sensing*, 2022
2. Single Underwater Image Restoration by Contrastive Learning  
**Junlin Han**, Mehrdad Shoeiby, Tim Malthus, Elizabeth Botha, Janet Anstee, Saeed Anwar, Ran Wei, Lars Petersson, Ali Armin  
*IEEE International Geoscience and Remote Sensing Symposium (IGARSS, oral)*, 2021
1. Dual Contrastive Learning for Unsupervised Image-to-Image Translation  
**Junlin Han**, Mehrdad Shoeiby, Lars Petersson, Ali Armin  
*New Trends in Image Restoration and Enhancement workshop (NTIRE), IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW, oral)*, 2021