

Junlin Han

webpage: <https://junlinhan.github.io/> | email: junlin.han@data61.csiro.au | [google scholar](#)

EDUCATION

Australian National University

Bachelor of Information Technology (Honours)

GPA: 3.95/4.0 (converted)

02.2019 – 06.2023

Canberra, Australia

RESEARCH INTERESTS

My research interests mostly lie in computer vision & computer graphics, and I'm always looking for ways to apply graphics techniques to vision, or vice versa.

My past and ongoing work span content creation, visual perception, scene understanding, image restoration/enhancement, self-supervised representation learning, 3D vision, data augmentation, etc.

I'm especially in favor of simple ideas that make vision & graphics work.

EXPERIENCE

Visiting Research Intern

AIML, University of Adelaide

Advisor/Host: [Prof. Ian Reid](#)

Topics: data-centric learning, implicit representation, 3D vision

12.2021 – ongoing

Adelaide, Australia

Research Student

Data61, CSIRO

Advisors: [Dr. Lars Petersson](#) and [Prof. Hongdong Li](#)

Topics: low-level vision, generative models, self-supervised learning

08.2020 – ongoing

Canberra, Australia

PUBLICATIONS

See my [webpage](#) for code, paper, dataset, project page, etc.

1. 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
Preprint
2. Blind Image Decomposition
Junlin Han, Weihao Li, Pengfei Fang, Chunyi Sun, Jie Hong, Ali Armin, Lars Petersson, Hongdong Li
Preprint
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
Preprint
4. 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
5. 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

6. Curvature-Aware Geometry for Visual Anomaly Recognition

Jie Hong, Pengfei Fang, Weihao Li, **Junlin Han**, Lars Petersson, Mehrtash Harandi

Under review

7. Wholistic Segmentation: Learning to Segment Every Pixel

Jie Hong, Weihao Li, **Junlin Han**, Jiyang Zheng, Mehrtash Harandi, Lars Petersson

Under review

SERVICES

Conference review: CVPR 2022

Journal review: Transactions on Image Processing (TIP), Neurocomputing, Photonics Journal (PJ), Journal of Oceanic Engineering (JOE)

Workshop review: NTIRE (CVPRW) 2021

TECHNICAL SKILLS

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

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

REFERENCES

References Available Upon Request