

Junlin Han

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EDUCATION

Australian National University

Bachelor of Information Technology (Honours)

GPA: 3.95/4.0

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, etc.

EXPERIENCE

Research Intern

Data61, CSIRO

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

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

08.2020 – 12.2021

Canberra, Australia

PUBLICATIONS

I open-source the code and datasets of all my first-authored papers. They are available at [GitHub](#).

- Blind Image Decomposition
Junlin Han, Weihao Li, Pengfei Fang, Chunyi Sun, Jie Hong, Ali Armin, Lars Petersson, Hongdong Li
Preprint
- 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
- Wholistic Segmentation: Learning to Segment Every Pixel
Hong Jie, Weihao Li, **Junlin Han**, Mehrtash Harandi, Lars Petersson
Under review
- 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
- 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

SERVICES

Conference review: NTIRE (CVPRW) 2021

Journal review: Photonics Journal (PJ) 2021

TECHNICAL SKILLS

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 <i>AIM (Active Integrated Matter) Conference</i>	2021
Top-up Scholarship <i>for research work at Data61, CSIRO</i>	2021
Undergraduate Vacation Scholarship <i>for summer research at Data61, CSIRO</i>	2020

REFERENCES

Dr. Lars Petersson

Principal research scientist, Data61, CSIRO

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Prof. Hongdong Li

Professor, Australian National University

Email: hongdong.li@anu.edu.au