

# Junlin Han

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## EDUCATION

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### Australian National University

Bachelor of Information Technology (Honours)

GPA: 3.95/4.0

02.2019 – 06.2023

Canberra, Australia

## RESEARCH INTERESTS

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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 love simple ideas that make vision & graphics work.

## EXPERIENCE

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### Visiting Research Intern

AIML, University of Adelaide

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

Topics: meta-learning, data augmentation, 3D vision

01.2022 – ongoing

Adelaide, Australia

### Research Intern

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

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

- 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
- 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
- Curvature-Aware Geometry for Visual Anomaly Recognition  
Jie Hong, Pengfei Fang, Weihao Li, **Junlin Han**, Lars Petersson, Mehrtash Harandi  
Under review
- Wholistic Segmentation: Learning to Segment Every Pixel  
Jie Hong, Weihao Li, **Junlin Han**, Jiyang Zheng, Mehrtash Harandi, Lars Petersson  
Under review

## SERVICES

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**Conference review:** CVPR 2022

**Journal review:** Photonics Journal, Journal of Oceanic Engineering

**Workshop review:** NTIRE (CVPRW) 2021

## TECHNICAL SKILLS

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**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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**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

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**References Available Upon Request**