

# Junlin Han

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## EDUCATION

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### Australian National University

Bachelor of Information Technology (Honours)

GPA: 3.95/4.0 (converted)

02.2019 – 06.2023

Canberra, Australia

## RESEARCH INTERESTS

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My research interests mostly lie in computer vision & computer graphics & machine learning.

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

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### 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 & Australian National University

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.

### 1. GOSS: Towards Generalized Open-set Semantic Segmentation

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

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

### 3. Blind Image Decomposition

**Junlin Han**, Weihao Li, Pengfei Fang, Chunyi Sun, Jie Hong, Ali Armin, Lars Petersson, Hongdong Li

Preprint

### 4. 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

### 5. 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

### 6. 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

7. Curvature-Aware Geometry for Visual Anomaly Recognition

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

Under review

## SERVICES

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**Conference review:** CVPR 2022, ICML 2022, ECCV 2022, Neurips 2022

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

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

## 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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**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**