

# 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 & machine learning & computer graphics.

My work span content creation, visual perception, visual recognition, scene understanding, image restoration/enhancement, representation learning, self-supervised learning, data augmentation, curved geometry, anomaly detection, memorability, etc.

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

## EXPERIENCE

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### Visiting Research Intern

AIML, University of Adelaide

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

Topics: data-efficient learning, visual recognition, memorability, cognition

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.

### 8. CropMix: Sampling a Rich Input Distribution via Multi-Scale Cropping

**Junlin Han**, Lars Petersson, Hongdong Li, Ian Reid

Preprint

### 7. 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

### 6. 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

### 5. 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

### 3. 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

2. GOSS: Towards Generalized Open-set Semantic Segmentation  
Jie Hong, Weihao Li, **Junlin Han**, Jiyang Zheng, Pengfei Fang, Mehrtash Harandi, Lars Petersson  
Preprint
1. Curved Geometric Networks for Visual Anomaly Recognition  
Jie Hong, Pengfei Fang, Weihao Li, **Junlin Han**, Lars Petersson, Mehrtash Harandi  
Preprint

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## SERVICES

**Conference review:** CVPR 2022, ICML 2022, ECCV 2022, Neurips 2022, ACCV 2022, AAAI 2023  
**Journal review:** Transactions on Image Processing (TIP), Pattern Recognition, Neurocomputing, Journal of Oceanic Engineering (JOE)  
**Workshop review:** NTIRE (CVPRW) 2021

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## 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

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## AWARDS

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

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## REFERENCES

<b>Prof. Ian Reid</b> Professor, FAA FTSE Email: <a href="mailto:ian.reid@adelaide.edu.au">ian.reid@adelaide.edu.au</a>	University of Adelaide
<b>Prof. Hongdong Li</b> Professor Email: <a href="mailto:hongdong.li@anu.edu.au">hongdong.li@anu.edu.au</a>	Australian National University
<b>Dr. Lars Petersson</b> Group Leader and Senior Principal Research Scientist Email: <a href="mailto:lars.petersson@data61.csiro.au">lars.petersson@data61.csiro.au</a>	Data61-CSIRO