

# 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 and deep learning.

My goal is to understand machine intelligence and build intelligent machines. 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

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.

### 9. What Images do Machines Memorialize?

**Junlin Han**, Huangying Zhan, Jie Hong, Pengfei Fang, Hongdong Li, Lars Petersson, Ian Reid

*In preparation. We study the problem of measuring how memorable an image will be to machines, and what makes an image memorable to machines.*

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

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

*Preprint arXiv:2205.15955*

### 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

*Remote Sensing, 2022*

### 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 arXiv:2203.12116*

1. Curved Geometric Networks for Visual Anomaly Recognition

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

*Preprint arXiv:2208.01188*

## SERVICES

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**Conference review:** CVPR 2022, ICML 2022, ECCV 2022, Neurips 2022, ACCV 2022, AAAI 2023, ICLR 2023

**Journal review:** Transactions on Image Processing (TIP), Pattern Recognition, Neurocomputing, 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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<b>Top Reviewer</b>	2022
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*NeurIPS (Conference on Neural Information Processing Systems)*

<b>Second Best Presentation Award</b>	2021
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*AIM (Active Integrated Matter) Conference*

<b>Top-up Scholarship</b>	2021
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*for research work at Data61-CSIRO*

<b>Undergraduate Vacation Scholarship</b>	2020
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*for summer research at Data61-CSIRO*

## REFERENCES

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**Prof. Ian Reid**

Professor, FAA FTSE

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University of Adelaide

**Prof. Hongdong Li**

Professor

Email: [hongdong.li@anu.edu.au](mailto:hongdong.li@anu.edu.au)

Australian National University

**Dr. Lars Petersson**

Group Leader and Senior Principal Research Scientist

Email: [lars.petersson@data61.csiro.au](mailto:lars.petersson@data61.csiro.au)

Data61-CSIRO