

# Junlin Han

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## EDUCATION

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### Australian National University

Bachelor of Information Technology (Honours)

GPA: 3.95/4.00 (WES converted)

02.2019 – 06.2023

Canberra, Australia

Expected to graduate with first-class honours

## RESEARCH INTERESTS

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My research interests lie in **computer vision**, **deep learning**, and **artificial intelligence**. In particular, I pursue visual intelligence from two perspectives: (1) how to build intelligent machines that may perceive, learn, and think more like humans, and (2) discover the perception and cognitive properties of machines.

## EXPERIENCE

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### Visiting Research Intern

AIML, University of Adelaide

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

Topics: data-centric 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.

### 11. What Images are More Memorable to Machines?

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

*Preprint arXiv:2211.07625*

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

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

*Preprint arXiv:2205.15955*

### 9. 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

### 8. 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

### 7. 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

### 6. 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

5. 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*

4. Hyperbolic Audio-visual Zero-shot Learning

Jie Hong, Zeeshan Hayder, **Junlin Han**, Pengfei Fang, Mehrtash Harandi, Lars Petersson

*Under review*

3. NeRFEditor: Differentiable Style Decomposition for Full 3D Scene Editing

Chunyi Sun, Yanbin Liu, **Junlin Han**, Stephen Gould

*Preprint arXiv:2212.03848*

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 2023, NeurIPS 2022 2023, ICML 2022, ECCV 2022, ICLR 2023, ICCV 2023, ACCV 2022, AAAI 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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**Top Reviewer** 2022

*NeurIPS (Conference on Neural Information Processing Systems)*

**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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**Prof. Ian Reid**

Professor, FAA FTSE

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University of Adelaide

**Prof. Hongdong Li**

Professor

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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