Junlin Han

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Education

Australian National University — Canberra, Australia
Bachelor of Information Technology (Honours) — 2019 – 2023
GPA: 3.95/4.0

Research Interests

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 work span learning for content creation, learning for visual perception, and learning for scene understanding.

Experience

Research Intern — 07.2020 – 12.2021
Data61, CSIRO — Canberra, Australia
Advisors: Dr. Lars Petersson and Prof. Hongdong Li — Topics: Low-level vision and Generative models

Publication

I open-source the code and datasets of all my first-authored papers. They are available at GitHub.

- **Junlin Han**, Weihao Li, Pengfei Fang, Chunyi Sun, Jie Hong, Mohammad Ali Armin, Lars Petersson, Hongdong Li "Blind Image Decomposition". Coming soon.
- **Junlin Han**, Mehrdad Shoeiby, Tim Malthus, Elizabeth Botha, Janet Anstee, Saeed Anwar, Ran Wei, Mohammad Ali Armin, Hongdong Li, Lars Petersson "Underwater Image Restoration via Contrastive Learning and a Real-world Dataset". Under review, TGRS.
- Hong Jie, Weihao Li, **Junlin Han**, Mehrtash Harandi, Lars Petersson "Wholistic Segmentation: Learning to Segment Every Pixel". Under review.
- **Junlin Han**, Mehrdad Shoeiby, Tim Malthus, Elizabeth Botha, Janet Anstee, Saeed Anwar, Ran Wei, Lars Petersson, Mohammad Ali Armin "Single Underwater Image Restoration by contrastive learning". In: *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2021, Oral.
- **Junlin Han**, Mehrdad Shoeiby, Lars Petersson, Mohammad Ali Armin "Dual Contrastive Learning for Unsupervised Image-to-Image Translation". In: *New Trends in Image Restoration and Enhancement workshop (NTIRE), CVPRW*, 2021, Oral.

Services

Conference review: NTIRE (CVPRW) 2021
Journal review: Photonics Journal (PJ) 2021

Technical Skills

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

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