Junlin Han

webpage: https://junlinhan.github.io/ | email: junlin.han@data61.csiro.au

Education

Australian National University 2019 – 06.2023
Bachelor of Information Technology (Honours) Canberra, Australia
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 past and ongoing work span content creation, visual perception, scene understanding, image restoration/enhancement, self-supervised representation learning, 3D vision, etc.

Experience

Research Intern 08.2020 – 12.2021
Data61, CSIRO Canberra, Australia
Advisors: Dr. Lars Petersson and Prof. Hongdong Li
Topics: low-level vision, generative models, self-supervised learning

Publications

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

- Blind Image Decomposition
  Junlin Han, Weihao Li, Pengfei Fang, Chunyi Sun, Jie Hong, Ali Armin, Lars Petersson, Hongdong Li
  Preprint
- 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
- Wholistic Segmentation: Learning to Segment Every Pixel
  Hong Jie, Weihao Li, **Junlin Han**, Mehrtash Harandi, Lars Petersson
  Under review
- 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
- 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

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

References

References Available Upon Request