

Hao Wang

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Personal Profile

A Master's graduate student at the Australian National University, undertaking the Machine Learning and Computer Vision program. Zealous about deep learning and machine learning and with 1+ years of work experience specializing in machine learning, convex optimization, deep graph networks and computer vision, python development, algorithms, and bioinformatics. Primarily, looking for a PhD opportunity to continue my research career.

Education

Australian National University

MSc of Machine Learning and Computer Vision

Canberra, Australia

July 2020 - July 2022

Hefei University of Technology

Communication Engineering

Hefei, China

September 2014 - July 2018

University Projects

Metric Learning Algorithms in Person-identification

Hefei University of Technology

Hefei, China

February 2018 - June 2018

- Thesis

Single Image Super-Resolution

Australian National University

Canberra, Australia

July 2020 - September 2020

- Technical Report: Siyuan Yan, Gefei Zhang, Hao Wang, Single Image Super-Resolution Using a Channel Attention Generative Adversarial Network.

Stress Recognition using thermal videos

Australian National University

Canberra, Australia

February 2021 - April 2021

- Publication: Hao Wang, Abhijit Adhikary. StressNet: A Deep Neural Network Based on Dynamic Dropout Layers for Stress Recognition. 28th International Conference on Neural Information Processing, 2021, Sanur, Bali, Indonesia.

Deep Declarative Networks

Australian National University

Canberra, Australia

February 2022 - June 2022

- Technical Report: Zhiwei Xu and Hao Wang, LESS: LEast Squares on Sphere for Iterative Energy Minimization and Novel Feature Representation.
- Technical Report: Hao Wang, Zhiwei Xu, and Stephen Gould, ViLESS: LEast Squares On Sphere For Video Classification.
- Thesis: Least-squares on Sphere for Novel Feature Representation and Video Action Recognition.
- Publication: Zhiwei Xu, Hao Wang, Yanbin Liu, and Stephen Gould, PMaF: deep declarative layers for principal matrix features. International Conference on Machine Learning Workshop, Honolulu, Hawaii, USA, 2023.

Work Experience

Beijing E-Hualu

Software Engineer

Beijing, China

May 2018 - May 2019

- Java and Python developer
- **Technical Skills:** Python with Django, Linux tools, Java, Spring Cloud, Git.

SOHU

Machine Learning Intern (got offer)

Beijing, China

May 2021 - July 2021

- **Technical Skills:** Python with PyTorch, NumPy, Matplotlib, Pandas, Scikit-learn, Setuptools, Wheel, Twine, Git.

BioMap

Algorithm Engineer of Data Mining, High-Performance Computing Engineer

Beijing, China

July 2021 -

- **Technical Skills:** Deep graph networks, Transformers, Generative Models, Bioinformatics, CUDA, Denovo Protein Design using multi-objective optimization.

Skills

Programming	Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.).
Miscellaneous	Linux, Shell (Bash/Zsh), \LaTeX (Overleaf/R Markdown), Git.
Soft Skills	Time Management, Teamwork, Problem-solving.