

HAO WANG

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EDUCATION

University of Sydney 2022 - Present
Doctor of Philosophy (Engineering)

University of Sydney 2017 - 2021
Bachelor of Information Technology (Honours) in Computer Science
Honours Class: WAM: 88.6/100 (High Distinction), First Class

EXPERIENCE

University of Sydney & Nepean Blue Mountains Local Health District Mar. 2022 - Present
Co-ordinating Principal Researcher *Sydney, NSW AU*

Project topic: A clinical validation study for AI-based remote patient monitoring system using facial videos

Institute of Translational Medicine, Shanghai Jiao Tong University Mar. 2023 - Jun. 2023
Research Assistant *Shanghai, CN*

Project topic: Quantify and classify nanoparticles for single cells under confocal laser scanning microscope.

BMIT Research Group, University of Sydney Nov. 2019 - Mar. 2022
Research Assistant *Sydney, NSW AU*

Project topic: AI-based remote patient monitoring system using facial videos.

University of Sydney Mar. 2019 - Jul. 2019
Academic Tutor *Sydney, NSW AU*

Work: Java teaching.

PUBLICATION

- Wang, H., Ahn, E., & Kim, J. (2024). A multi-resolution self-supervised learning framework for semantic segmentation in histopathology. *Pattern Recognition*, 155, 110621.
- Wang, H., Ahn, E., & Kim, J. (2022). Self-Supervised Representation Learning Framework for Remote Physiological Measurement Using Spatiotemporal Augmentation Loss. *Proceedings of the AAAI Conference on Artificial Intelligence*, 36(2), 2431-2439. <https://doi.org/10.1609/aaai.v36i2.20143>
- Wang, H., Ahn, E., Bi, L., & Kim, J. (2023). Self-Supervised Multi-Modality Learning for Multi-Label Skin Lesion Classification. *arXiv preprint arXiv:2310.18583*.
- Zhou, S., Ahn, E., Wang, H., Quinton, A., Kennedy, N., Sridar, P., ... & Kim, J. (2023, October). Improving Automatic Fetal Biometry Measurement with Swoosh Activation Function. In *International Conference on Medical Image Computing and Computer-Assisted Intervention* (pp. 283-292). Cham: Springer Nature Switzerland.

PROFESSIONAL ACTIVITIES

Reviews of Journals

Reviewer for TMI; CMPB, and helped to review for NatureBME; TPAMI; MedIA; JBHI; CIBM; TVCG; TBME.

Reviews of Conferences

Reviewer for ACMMM'24; ISBI'23,24, and helped to review for MICAD'23; MICCAI'22,23; AAAI'22; CVPR'24.

OTHER ACTIVITIES

Website Building

- CGI Workshop. Code Website
- BDAV Group website. Code Website
- BMIT Group website. Code Website
- Writing guide for group

AWARDS

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| Faculty of Engineering Research Scholarship
<i>University of Sydney</i> | 2022 |
| Scholarship to provide tuition waiver and stipend. | |
| School of Computer Science Undergraduate Prize for Outstanding Academic Achievement in Fourth Year
<i>University of Sydney</i> | 2022 |
| Prize for outstanding honours students. | |
| School of Computer Science Undergraduate High Honour Roll
<i>University of Sydney</i> | 2022 |
| Prize for first class honours students. | |
| Postgraduate High Honour Roll in Schoole of Computer Science
<i>University of Sydney</i> | 2020 |
| Achieve highest mark in INFO5992 Understanding IT Innovation. | |
| Summer Research Scholarship in Faculty of Engineering
<i>University of Sydney</i> | 2020 |
| Scholarship for successful applicants of summer research program. | |
| Summer Research Scholarship in Faculty of Engineering
<i>University of Sydney</i> | 2019 |
| Scholarship for successful applicants of summer research program. | |
| Dean's List of Excellence in Academic Performance
<i>University of Sydney</i> | 2018 |
| Placement on the Dean's List of Excellence in Academic Performance on the basis of outstanding academic merit. | |

The University of Sydney Academic Merit Prize

2018

University of Sydney

Awarded to the highest performing undergraduate students in each faculty based on average marks (top 2% in the University of Sydney).

The University of Sydney Academic Merit Prize

2017

University of Sydney

Awarded to the highest performing undergraduate students in each faculty based on average marks (top 2% in the University of Sydney).