Hao Wu

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Bio. I am currently a third-year graduate student under the supervision of **Lianli Gao** at the Department of Department of Computer Science, UESTC. My research interests lie in the field of computer vision, especially in **medical image analysis** and **few-shot learning**. My personal website is here.

Education

University of Electronic Science and Technology of China (UESTC)	2021—2024(Exp)
M.Phil Computer Science and Technology GPA: 3.76/4.0	
Shandong University (SDU)	2017—2021
B.Eng. Computer Science and Technology (Elite Program) GPA: 89.12/100	

Experience

Center for Future Media, UESTC	2021.09—Present
Advisor: Lianli Gao	
Focus: Few-shot learning, representation learning, in-context learning	
Institute of Intelligent Computing, SDU	2019.09—2021.06
Advisor: Yanwei Zheng	
Focus: Person ReID, AI applications on Power System	
Intelligent Media Research Center, SDU	2018.10—2019.05
Advisor: Xuemeng Song	
Focus: Competition(network compression)	

Publication

1. Xu Luo*, **Hao Wu***, Ji Zhang, Lianli Gao, Jing Xu, Jingkuan Song. A Closer Look at Few-shot Classification Again. Proceedings of the 40th International Conference on Machine Learning (ICML2023)

2. **Hao Wu**, Danyang Feng and Huihui Fang. Glaucoma Detection on 3D-OCT with View Transform. The 10th Ophthalmic Medical Image Analysis Workshop, MICCAI 2023.

Projects

1. **Early Glaucoma Detection with Fundus and 3D-OCT Images**, Chengdu, China   2022.12

   Researcher. We are committed to detecting glaucoma through the use of multimodal medical data, including Optical Coherence Tomography(OCT) and Fundus.

2. **Multi-view based Coal Measurement System**, Shandong, China   2020.12

   R&D Engineer. Coal Measurement offers a reliable coal volume estimation, enabling effective scheduling of power plant operations. We has successfully developed a multi-view based measurement system, incorporating over 100 cameras to achieve cost-effective 3D modeling. Through the implementation of advanced algorithms in camera calibration, feature mining and matching, and dense reconstruction, we have achieved less than 10% error with 10% budget.

3. **System of Active Hazard Detection in Nanding Thermal Power Plant**, Shandong, China   2020.10

   R&D Engineer. The active hazard detection system in power plant seamlessly integrates visual signals from CCTV monitors with advanced visual intelligent methods, enabling a highly effective sub-second response. This system has been successfully operational for 2 years.

4. **An Amazing Auto-Typesetting System[Project Page]**   2019.05

   R&D Engineer. DLArtist is an innovative auto-typesetting system that liberates specialists from the burdensome task of manual typesetting. With DLArtist, all you need to do is gather the necessary text and image materials, import them into the system, and then sit back and wait. In just a matter of seconds, you will be amazed to witness the transformation of your content into a beautifully designed magazine article. This project ranked 9th in the 12th National Collegiate Software Innovation Contest and got investment intention.

Scholarships & Honors

2023 & 2021   First Class Scholarship of UESTC **(2 times)**

2021   College Graduate Excellence Award of Shandong University **(only 1 in each class)**

2020   Rank 1st, The 3rd Innovation and Entrepreneurship Competition of SDU **(Investment Intention Got)**

2019   National Second Prize (9/199), The 12th National Collegiate Software Innovation Contest

2019   Second Class Scholarship of SDU **(2 times)**

2019   Zhiyang Scholarship **(only 3 at each grade)**

2018   China National Encouragement Scholarship

2018   First Class Scholarship of SDU

Misc

2019   First Aider of China Red Cross

2020   Teaching assistant of Linear Algebra

2021   Teaching assistant of Discrete Mathematics

2020-2023   Lab Server Administrator

2020   I was the co-leader of OpenLab, our undergraduate lab. During COVID-19 pandemic, I have invited a dozen speakers from China and America, and held 8 webinars online for our lab.

2020-2021   I established the first **Stray Cat Rescue Team** in Shandong University and it has rescued dozens of stray cats in our campus.

Language: CET-4 (Pass), CET-6 (Pass, 485), IELTS (I'm working on it)

Programming: Python, **Java**, SQL, Shell, LaTeX

Hobbies: Riding (I rode around my city for 106 kilometers); Climbing (I have reached a 4100-meters' mountain, and plan to climb a 5276-meters' mountain in one year); Reading; Walking