

Guorun Wang

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AI&Machine Learning Incoming Postgraduate

Bio. I graduate from Data Science and Big Data technology in the Computer Science department, Tongji University. I am an incoming Mres student at Imperial College London, supervised by Professor Lucia Specia.

Research interests. I'm interested in Multimodal, NLP, Computer Vision. I also have experience in 3D vision and Efficient NLP.

Education

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- Sep 2023 – Sep 2024 (Expected) **Mres** of AI and Machine Learning, *department of computing, Imperial College London*
Project : Automated detection of AI-generated images and language texts
Supervisor : Prof. Lucia Specia
- Sep 2019 – Jul 2023 **Bachelor of Engineering**, *Tongji University*, Shanghai
Major in Data Science and Big Data technology
Best final thesis award
GPA : 4.76/5.0 (92.57/100)






Publications

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- > **Task-oriented Memory-efficient Pruning-Adapter**
Guorun Wang, Jun Yang, Yaoru Sun
arXiv, 2023
 - > **Deep Pixel-wise Textures for Construction Waste Classification**
Jun Yang, Guorun Wang, Yaoru Sun, Lizhi Bai and Bohan Yang
IEEE Transactions on Automation Science and Engineering, 2023
 - > **Pixel Difference Convolutional Network for RGB-D Semantic Segmentation**
Jun Yang, Lizhi Bai, Yaoru Sun, Chunqi Tian, Maoyu Mao, Guorun Wang
IEEE Transactions on Circuits and Systems for Video Technology, 2023
 - > **What are You Posing : A gesture description dataset based on coarse-grained semantics**
Luchun Chen, Guorun Wang, Yaoru Sun, Rui Pang, Chengzhi Zhang
ICNLP, 2022
 - > **U2 Net-Plus and background removal based PIFu-HD : Human Body Reconstruction in Complex Background**
Guorun Wang, Xudong Liu, Kuo-Yi Lin, Fuhjiun Hwang
International Journal of Internet Manufacturing and Services, 2022

Skills

Programming Skills **Python, C/C++, MySQL, MongoDB, Hbase, Bash and GIS, \LaTeX**
Framework **Pytorch, Tensorflow, Keras**

Projects & Experiences

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- | | |
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| Jun 2023 | Research assistant, Cognitive and Intelligent Computing Lab, Tongji University |
| Sep 2021 | <ul style="list-style-type: none">> Multimodal in image caption, multi-modal classification, and diffusion model with Professor Yaoru Sun and Dr. Jun Yang.>  : What are You Posing,
Multimodal |
| Mar 2023 | Research assistant, H2lab, University of Washington |
| Jul 2022 | <ul style="list-style-type: none">> Parameter-efficient NLP with Dr. Qingqing Cao (Postdoc)>  : Opendelta-finetune>  : Time testing for LLMs>  : Optimized DeepSpeed>  : Prune for T5
NLP Efficiency |

Sep 2022 Aug 2022	Research intern, Contex.ai, London > 3D NerFs with Professor Lucia Specia and Dr. Viktoriia Sharmanska 3D Nerf
Jun 2022 May 2021	Research assistant, Tongji University, Shanghai > Robustness of human body reconstruction and segmentation method in industrial application with Professor Kuo-yi Lin > Project : Intelligent Dance Evaluation and Teaching Mode based on Pose Estimation <ul style="list-style-type: none"> • Team leader • Have won many awards • Computer Vision and OpenPose • Deployed on a large server in Pudong, Shanghai > Project : Driving status recognition <ul style="list-style-type: none"> • Team leader • Corporating with Baidu • Computer Vision and Face recognition • Deployed on a server in Paddle Computer Vision
Jun 2022 Jan 2022	Financial statement identification, Tongji University, Shanghai > Project : Financial statement identification <ul style="list-style-type: none"> • Team member • Translation of original image to Json file Computer Vision
Jan 2022 Nov 2021	Bug reporter, Tongji University, Shanghai > Report for the verification code vulnerability of Tongji Educational Administration System <ul style="list-style-type: none"> • Writing crawler software which can use computer vision technology to crack verification code automatically and crawl credit data and consumption data • Reported to the Network Information Office of Tongji University • Positive feedback and acknowledgements Computer Vision
Jan 2022 Sep 2021	Teaching Assistant, Tongji University, Shanghai > Teaching Assistant of Parallel and Distributed System Architecture Technology offered by Tongji University <ul style="list-style-type: none"> • Building a Linux cloud server for CUDA accelerated source code testing • Assigning an exclusive account to each user according to his/her ID • Testing homework of BMP image convolution using MPI, Pthread, OpenMP, CUDA TA
Aug 2022 Jun 2021	Attend online course, Applying Machine Learning to Engineering and Science - Professional Certificate Program, MITxPRO > Foundational Machine Learning concepts, programming and application of Data Science

Languages

English (IELTS 7) Chinese Mandarin (native)

Honors & Awards

Jun 2023 Best final thesis award.
 Sep 2022 Second Prize Tongji Scholarship.
 Sep 2021 Third Prize Tongji Scholarship.
 Sep 2021 First Prize The 4th China College Students Mechanical Engineering Innovation and Creativity Competition.
 Oct 2017 First Prize NOIP (Top 5%).

Misc

Basketbal, Movie editing, Cooking.

(last update : 13/08/2023)