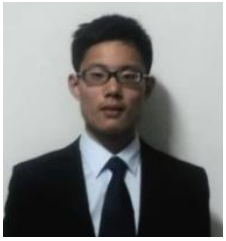

Ziyang WANG

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EDUCATION

University of Electronic Science and Technology of China - Chengdu, China **Sept. 2018 – Jul. 2022**

- Major: **Software Engineering**: "Liren" Elite Program GPA：3.92/4 Weighted Average: 89.89
- Bachelor of Engineering expected in July 2022
- Selected courses: Calculus I 94, Calculus II 90, Linear Algebra 92, Artificial Intelligence 90.

International Technology University - San Jose, CA Visiting student **Jul. 2019 – Aug. 2019**

- Lecture taken: IoT, Bio Electronics, Blockchain, etc.
- Project: synthetic music (via Matlab), robot car (via Raspberry Pi)

RESEARCH

Research Intern **University at Buffalo, SUNY** **Aug. 2021 – Present**

Advisor: Prof. Junsong Yuan and Dr. Tan Yu

- Our research focus is the intersection of vision and language. We mainly focus on the fake multimodal information that effects human's life. We explore the multimodal application that can discover the semantic inconsistency in fake multimodal information.

Research Assistant (full-time) **UESTC** **Jan. 2021 – Aug.2021**

Advisor: Prof. Jingjing Li

- Conducted full-time research on Zero-shot Learning and transfer learning under the supervision of Prof. Jingjing Li.
- Our paper "Region Semantically Aligned Network for Zero-Shot Learning" have been accepted by CIKM21 (co-lead author, full research track) and I will give a talk about our paper on the main conference. In this paper, we proposed a novel ZSL method to improve the alignment between semantic space and visual space in a region-based manner. In this paper, we directly mapping the image regions to semantic attributes and leverage text information to enhance the attribute localization. Further, we provide a more simple and more effective structure for our model and will submit to TIP recently.

PROJECTS

Factory Object Detection System Based On Deep Learning **Oct. 2020 – Jan. 2021**

Team Leader *UESTC* *Advisor: Prof. Yunbo Rao*

- Deployed yolov5 model to realize helmet recognition in automated factory
- Used several methods from explainable AI to evaluate our model, and then strengthened the model via data augmentation, fine-tuning, etc.
- Developed a front-end and back-end for our system and tested our system in real world
- Passed the final acceptance check successfully

SKILLS

- Languages: Chinese (native)

  English CET4 606, TOEFL 106 (r29 l29 s24 w24), GRE 327 (verbal157 math170)
- Computer: code on C, Python, coding experience on Pytorch, have a basic understanding on machine leaning, deep learning, have research experiences on Zero-shot Learning.

HOBBY

- Football: Captain of the department team and won the school champion twice (2019 2021); Key player of

the school team and play the CUFA games (2018-2021).

SELF-EVALUATION

I consider myself as a devoted person and can make contribution to my teams. I can always provide some novel ideas and try to think in a novel angle. What's more, I am really interested in doing research because I gain a lot of satisfaction from exploring and solving those difficult tasks. Recently, I am really interested in multimodal machine learning, especially the vision and language task. I hope that my work can really benefit to the human being.

PUBLICATION

- Ziyang Wang, Yunhao Gou, Jingjing Li, Yu Zhang, and Yang Yang. 2021. Region Semantically Aligned Network for Zero-Shot Learning. In Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM' 21 oral).