Xinyu Liu

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EDUCATION

- **Xidian University** — Xi'an, Shaanxi, China
  Master's degree of Computer Science and Technology — *Sept. 2020 – Jun. 2022*

- **Xidian University** — Xi'an, Shaanxi, China
  Bachelor of Communication Engineering — *Sep. 2016 – Jun. 2020*

WORK EXPERIENCE

- **Institute for AI Industry Research (AIR), Tsinghua University** — Beijing, China
  Research Assistant (Supervisor: Assistant Prof. Hao Zhao) — *Mar. 2022 - Now*
  - Propose an unified architecture for shape-aware zero-shot semantic segmentation(SAZS)
  - Investigate the caption generation and propose an action-aware driving caption transformer architecture(ADAPT)

- **Intelligent Perception and Image Understanding Lab(IPIU), Xidian University** — Xi' an, China
  Research Assistant (Supervisor: IEEE Fellow Prof. Licheng Jiao) — *Jan. 2020 - Now*
  - Investigate End-to-End video question answering and won the 1st place of related competition
  - Investigate visual question answering and won the 2nd place of related competition

PUBLICATIONS

- Delving into Shape-aware Zero-shot Semantic Segmentation
  Xinyu Liu, Beiwen Tian, Zhen Wang, Rui Wang, Kehua Sheng, Bo Zhang, Hao Zhao, Guyue Zhou
  IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR 2023)

- ADAPT: Action-aware Driving Caption Transformer
  Bu Jin, **Xinyu Liu**, Yupeng Zheng, Pengfei Li, Hao Zhao, Tong Zhang, Yuhang Zheng, Guyue Zhou, Jingjing Liu
  IEEE International Conference on Robotics and Automation (ICRA 2023)

COMPETITIONS WORKSHOP

- **ICCV 2021: Multi-Modal Video Reasoning and Analyzing Competition**
  Task: Track-1 & video question answering — *Jun. 2022 - Aug. 2022*
  - Won the 1st place. (ICCV2021)

- **CVPR 2021: FloodNet Challenge @ EARTHVISION 2021-VQA**
  Task: Track 2 & remote sensing image question answering — *Jun. 2022 - Sep. 2022*
  - Won the 2nd place(CVPR2021)

HONORS AND AWARDS

- **Awards**

  - Social scholarship sponsored by CETC Leis Info System Co., Ltd. (top 1%)
  - The 2021 National Scholarship for Graduate Students.
  - The championship in the MMVRAC Track: Video Question Answer competition of the ICCV 2021.
  - The second place in the VQA competition of the CVPR 2021 FloodNet Challenge.
  - The M Award (First Prize) in the American Mathematical Contest in Modeling for College Students.