

Qitong Wang (He/Him/His)

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🌐 <https://wqtwtj1996.github.io/>

(Updated on Dec. 9th, 2024.)

Education

- 2021 – Now 📖 **Ph.D. University of Delaware**; Computer & Information Sciences.
Advisor: *Xi Peng*.
- 2018 – 2020 📖 **M.S. Boston University**; Computer Science.
Advisor: *Margrit Betke*.
- 2014 – 2018 📖 **B.Eng. Wuhan University of Technology**; Software Engineering.
GPA: 91.04/100; Rank: 2/228.

Research Publications

Work In submission

- 1 **Q. Wang**, E. Chinkaka, R. Richaud, M. Haghdadi, C. Wolk, K. V. Oromeng, K. F. Davis, F. Bianco, X. Peng, and J. M. Klinger.
“MO-SAM: Testing the reliability and limits of mine feature delineation using Segment Anything Model to democratize mine observation and research.”
▷ *Work in Submission*.

Journal & Conference

- 1 **Q. Wang**, T. Li, K. X. Nguyen, and X. Peng
“Beyond Accuracy: On the Effects of Fine-tuning Towards Vision-Language Model’s Prediction Rationality.”
Association for the Advancement of Artificial Intelligence (AAAI), 2025.
▷ Acceptance rate 23.4%; Top conference in Artificial Intelligence.
- 2 **Q. Wang**, L. Zhao, L. Yuan, T. Liu, and X. Peng
“Learning from Semantic Alignment between Unpaired Multiviews for Egocentric Video Recognition.”
International Conference on Computer Vision (ICCV), 2023.
▷ Acceptance rate 26.1%; Top conference in Computer Vision & Pattern Recognition.
- 3 **Q. Wang**, B. Fu, M. Li, J. He, X. Peng, and Y. Qiao
“Region-aware Arbitrary-shaped Text Detection with Progressive Fusion.”
IEEE Transactions on Multimedia (TMM), 2022.
▷ Impact factor 7.3; Top journal in Multimedia.
▷ The first two authors contributed equally to this work.
- 4 Y. Zou, J. Choi, **Q. Wang**, and J.-B. Huang
“Learning representational invariances for data-efficient action recognition.”
Computer Vision and Image Understanding (CVIU), 2022.
▷ Impact factor 4.5; Prestigious journal in Computer Vision & Pattern Recognition.
- 5 Y. Zheng, **Q. Wang**, and M. Betke
“Semantic-Based Sentence Recognition in Images Using Bimodal Deep Learning.”
IEEE International Conference on Image Processing (ICIP), 2021.
▷ Prestigious conference in Computer Vision & Pattern Recognition.
- 6 **Q. Wang**, Y. Zheng, and M. Betke
“A Method for Detecting Text of Arbitrary Shapes in Natural Scenes That Improves Text Spotting.”
Workshops of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPRW), 2020.

Internship & Collaboration

Sep 2021 – Now	📌 Graduate Research Assistant , University of Delaware.
Jun 2025 – Sep 2025	📌 PhD Research Intern , Dolby Laboratories.
Sep 2021 – Nov 2022	📌 Research Collaboration , Google Research.
Jun 2021 – Aug 2021	📌 Applied Science Intern , Amazon Web Services (AWS).
May 2020 – Aug 2020	📌 Visiting Student , Shenzhen Institute of Advanced Technology.

Selected Projects

May. 2024 - Now	📌 Deep-REAL Lab, University of Delaware ; Introduced a new dataset for video understanding and benchmarked various models, including Multimodal Large Language Models such as Video-LLaVA and VideoLLaMA2.
Sep. 2023 - Aug. 2024	📌 Deep-REAL Lab, University of Delaware ; Designed experiments to investigate the impact of fine-tuning on the prediction rationality of Vision-Language Models (e.g., CLIP).
Mar. 2023 - Apr. 2024	📌 Dept. of Geog., University of Delaware ; Proposed a method utilizing the “Segment Anything Model (SAM)” to detect mine features in satellite imagery.
Sep. 2021 - Nov. 2022	📌 Google Research (Collaboration) ; Developed a method to align unpaired multiview videos with varying cross-view semantic information, utilizing the capabilities of Large Language Models.
May. 2021 - Aug. 2021	📌 Amazon Web Services ; Developed a method for image-text retrieval.

Awards

2024	📌 CIS Distinguished Graduate Student Award , University of Delaware.
2023	📌 Outstanding Conference Travel Award , CIS department of University of Delaware.

Services

Conference Reviewer	📌 ECCV-2024, BMVC-2024, CVPR-2025.
Journal Reviewer	📌 IEEE-TIP, PLOS-ONE.
Vol. Conf. Reviewer	📌 CVPR-2023, NeurIPS-2023, AAAI-2024, ICLR-2025.
Vol. Jour. Reviewer	📌 IEEE-TAI, IEEE-TPAMI, ACM-TIST.

Invited Talk

Sep. 2023	📌 Extraction, Effluent, and Enumeration in Extraglobal Geopolitics ; Off-Earth Geopolitics Workshop. University of Oxford (virtually).
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Skills

Coding	📌 Python, Pytorch, \LaTeX , ...
Large Models	📌 CLIP, SAM, BERT, Video MLLMs (Video-LLaVA, VideoLLaMA2)...