# Qitong Wang (He/Him/His)

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🌐 https://wqtwjt1996.github.io/

(Updated on Dec. 27th, 2024.)

## Education

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|---|---|---|
| 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

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| 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

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| 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

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

## Services

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

## Invited Talk

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

## Skills

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| Coding | Python, Pytorch, LaTeX, … |
| Large Models | CLIP, SAM, BERT, Video MLLMs (Video-LLaVA, VideoLLaMA2)… |