Qitong Wang (He/Him/His)

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https://wqtwjt1996.github.io/

(Updated on Aug. 24th, 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**, 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.*

2. **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.*

3. 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.*

4. 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.*

5. **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 – Aug 2024 **Graduate Research Assistant,** University of Delaware.

Sep 2021 – Nov 2022 **Research Collaboration,** Google Research.

Internship & Collaboration (continued)

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 - Now **Deep-REAL Lab, University of Delaware;** Designed experiments to study the explainability of Vision-Language Models (such as CLIP) in visual tasks.

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.

Journal Reviewer IEEE-TIP.

Vol. Conf. Reviewer CVPR-2023, NeurIPS-2023, AAAI-2024.

Vol. Jour. Reviewer IEEE-TAI, IEEE-TPAMI.

Invited Talk

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

Skills

Coding Python, Pytorch, LaTeX, …

Large Models CLIP, SAM, BERT, Video MLLMs (Video-LLaVA, VideoLLaMA2)…