Jiawei Qin

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Education

- **University of Tokyo** — Tokyo, Japan
  Ph.D in Information and Communication Engineering — *Sep. 2021 - Sep. 2025 (Expected)*
- **University of California, San Diego** — La Jolla, CA, USA
  Master of Science in Electrical and Computer Engineering — *Sep. 2018 - Dec. 2019*
- **Tianjin University** — Tianjin, China
  Bachelor of Engineering in Mechanical Engineering — *Sep. 2014 - July. 2018*

Research Interests

- **Computer Vision & Gaze Estimation**: Determine gaze direction by analyzing human facial images.
- **3D Human Synthesis**: Computer graphics or generative AI for synthesizing human face or body.
- **Synthetic Training**: Robust models trained by synthetic data.

Publications

- J. Qin, X. Zhang, Y. Sugano. *UniGaze: Towards Universal Gaze Estimation via Large-scale Pre-Training* arXiv preprint arXiv:2502.02307, 2025.
- Y. Hisadome, T. Wu, J. Qin, Y. Sugano. *Rotation-Constrained Cross-View Feature Fusion for Multi-View Appearance-based Gaze Estimation.* In Proceedings of the IEEE Winter Conference on Applications of Computer Vision, Jan. 2024.
- J. Qin, X. Wang. *Angle Range and Identity Similarity Enhanced Gaze and Head Redirection based on Synthetic data.* In Proceedings of the IEEE International Symposium on Multimedia, Dec. 2023.
- J. Qin, T. Shimoyama, X. Zhang, Y. Sugano. *Domain-Adaptive Full-Face Gaze Estimation via Novel-View-Synthesis and Feature Disentanglement.* arXiv preprint arXiv:2305.16140, 2023.
- J. Qin, T. Shimoyama, Y. Sugano. *Learning-by-Novel-View-Synthesis for Full-Face Appearance-based 3D Gaze Estimation.* In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshop in Gaze, June 2022. (Best Paper Award)

Experience

- **Delft University of Technology** — Delft, Netherlands
  Visiting Researcher — *Jun. 2024 - Dec. 2024*
  - **Gaze Estimation**: Proposed new methods for robust gaze estimation.
- **CyberAgent Inc.** — Tokyo, Japan
  Research Intern — *Aug. 2022 - Dec. 2022*
  - **Gaze Redirection**: Developed a novel approach using single-view 3D face reconstruction to generate synthetic data for gaze redirection.
- **Ememe Inc.** — Tokyo, Japan
  Research and Development (Part-time) — *Nov. 2021 - Dec. 2023*
  - **Human Pose Estimation**: Optimized 3D pose estimation models for the app users.

Skills

- **Platforms**: ABCI, AWS, GCP, Slurm
- **Languages**: Mandarin (Native), Japanese (JLPT N1: 174/180), English (TOEFL: 99)