Dafei Qin

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dafei-qin.github.io

Education

2020 – 2025	**Ph.D. Candidate in Computer Science**, The University of Hong Kong Supervisor: Prof. Taku Komura, Prof. Wenping Wang. HKU Presidential Scholarship
2016 – 2020	**B.Sc in in Electronic Engineering**, Tsinghua University University Scholarship, GPA: 3.7/4.0, Top 20%.

Publications

2024 — **Instant Facial Gaussians Translator for Relightable and Interactable Facial Rendering**
Dafei Qin, Hongyang Lin, Qixuan Zhang, Kaichun Qiao, Longwen Zhang, Zijun Zhao, Jun Saito, Jingyi Yu, Lan Xu, Taku Komura
arXiv.
Translating PBR Facial assets to optimized Gaussian Splatting in seconds, enabling 30fps@1400p rendering on mobile phones.

2024 — **Media2Face: Co-speech Facial Animation Generation With Multi-Modality Guidance**
Qingcheng Zhao, Pengyu Long, Qixuan Zhang, **Dafei Qin**, Han Liang, Longwen Zhang, Yingliang Zhang, Jingyi Yu, Lan Xu
ACM SIGGRAPH 2024 (Conference Track).
Co-speech facial animation generation with image and text conditions, training on the largest co-speech audio-face 3D dataset.

2023 — **Neural Face Rigging for Animating and Retargeting Facial Meshes in the Wild**
Dafei Qin, Jun Saito, Noam Aigerman, Thibault Groueix, Taku Komura
ACM SIGGRAPH 2023 (Conference Track).
An end-to-end deep-learning approach for automatic rigging and retargeting of 3D models of human faces in the wild.

2023 — **Bodyformer: Semantics-guided 3D Body Gesture Synthesis With Transformer**
Kunkun Pang*, **Dafei Qin***, Yingruo Fan, Julian Habekost, Takaaki Shiratori, Junichi Yamagishi, Taku Komura
ACM SIGGRAPH 2023 (Journal Track).
*Contributed equally.
A novel transformer-based framework for automatic 3D body gesture synthesis from speech.

Industry experience

May 2024 – Sep 2024	**Adobe Inc.** – Research Intern Controllable Video Generation
Oct 2023 – May 2024	**Deemos Technology** – Research Intern Gaussian Splatting for dynamic face

Research Interests

Digital Avatars, Animation Synthesis.