

Xueqi Qiu

Contact Information

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Research Interests

I am a PhD student in the Department of Computer Science at Durham University, supervised by Prof. Yang Long and Dr. Junyan Hu. I received my M.Sc. degree in Advanced Computer Science from Newcastle University in 2022. My research interests include **computer vision, machine learning, 3D reconstruction, and 3D understanding**, with a particular focus on neural rendering, 3D Gaussian Splatting, vision-language learning, and 3D content editing.

Education

- **Ph.D. in Computer Science**
Durham University, Durham, the UK, Oct 2023 — present
Main supervisor: Prof. Yang Long; Co-supervisor: Dr. Junyan Hu.
- **M.Sc. in Advanced Computer Science, Distinction**
Newcastle University, Newcastle, the UK, Sep 2021 — Sep 2022
Master's dissertation: *Video-based Human Facial Expression Recognition using Deep Learning*.
- **B.Sc. in Information and Computing Science**
Hubei University of Education, Wuhan, China, Sep 2014 — Jun 2018
Bachelor's dissertation: *Case Analysis of Mathematical Modeling Infusion in Data Structure*

Working Experience

- **Research Assistant**
Durham University, Durham, the UK Mar 2026 — Jun 2026
Conducted research on unified 3D vision-language understanding, investigating alignment and fusion across 3D vision-language tasks, as well as geometry-aware representation organization and adaptive fusion for unified 3D vision-language models.
- **Product Operations Manager**
Wuhan Convergence Technology Co., Ltd, Wuhan, China Jun 2020 — Aug 2021
Supported project teams in the implementation, evaluation, acceptance, promotion, and exhibition of projects. Delivered timely and professional after-sales technical support, troubleshooting, and system upgrade maintenance services for overseas customers, improving service efficiency and enhancing customer experience.
- **Teaching Assistant**
Shanghai Keqiao International High School, Shanghai, China May 2019 — May 2020
Assisted course delivery by grading assignments, providing feedback, and explaining key concepts to students through tutorials and Q&A sessions.

- Research Intern

Wuhan Huazhi Tiancheng Information Technology Co., Ltd, Wuhan, China Sep 2018 — Apr 2019
Maintenance system background data, ensure data update.

Academic Presentations

- Paper Presentations

The International Conference on Information Fusion (Fusion) 2026

The British Machine Vision Conference (BMVC), 2025

- Seminar

Hybrid Intelligence Lab, Durham University, 2025

Grants and Awards

- 2026 IEEE International Conference on Multisensor Fusion and Integration (MFI 2026)
Best Student Paper, Second Prize, Sep 2026

Paper: *An extended object PMB filter with zero-inflated Poisson model using belief propagation.*

- 2026 The International Conference on Information Fusion (FUSION)

Student Scholarship

Jun 2026

Paper: *Event-Triggered Distributed Target Tracking via PRIMEX.*

- China International College Students' Innovation Competition (Recommended by Shanghai Jiao Tong University)

Silver Prize

Oct 2025

Project: *Smart Sensor Fusion Data Centre for Autonomous Systems.*

• **China Scholarship Council (CSC) Scholarship Recipient**

PhD Scholarship

June 2023

Professional Service

- **Conference Reviewer**

Neurips, ACMMM, AAAI, ECCV, IJCAI, ACCV, BMVC, MFI, FUSION

- Journal Reviewer

IEEE: T-IP, T-CSVT, T-MM, IJCV

Elsevier: IF, PR, Neuro-Computing, KBS

Languages and Coding Skills

- **Languages:** Chinese (mother tongue), English (Fluent in speech and writing).

- **Coding Skills:** familiar with Python (PyTorch); experiences in C/C++, ROS, C#, SQL.

Journal Publications

1. **X Qiu**, X Miao, H Duan, M Shao, B Zhai, G Zhang, J Deng, Y Long
M3GStyler: Enhancing consistency across multi-view in multi-modality 3D Gaussian style transfer.
Pattern Recognition, 2026.
2. F Wan, Z Jiang, Y Li, X Miao, **X Qiu**, T Zhang, Y Long
AdaGA-NeRF for Sparse-View Synthesis.
IEEE Transactions on Multimedia, 2026.
3. **X Qiu**, X Miao, F Wan, H Duan, T Shah, V Ojha, Y Long, R Ranjan
D2Fusion: Dual-domain fusion with feature superposition for deepfake detection.
Information Fusion, 2025.

Conference Publications

1. **X Qiu**, Y Xia, H Kim, C Yang
An extended object PMB filter with zero-inflated Poisson model using belief propagation.
IEEE International Conference on Multisensor Fusion and Integration, 2026.
2. Y Xia, KC Chang, **X Qiu**, L Gao, C Yang, T Yuan
Event-triggered distributed target tracking via PRIMEX.
International Conference on Information Fusion, 2026.
3. X Miao, **X Qiu**^{*}, H Duan, Y Huang, X Wu, J Deng, Y Long (* Equal contribution.)
M2StyleGS: Multi-Modality 3D Style Transfer with Gaussian Splatting.
The 36th British Machine Vision Conference, 2025.