

Yequan Bie (别业泉)

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EDUCATION

The Hong Kong University of Science and Technology (HKUST), Computer Science & Engineering Hong Kong
Overall GPA: 3.97/4.0 *Ph.D Student in Computer Science & Engineering* 2023.09 – present

Research Areas: Vision-Language Foundation Models, Reinforcement Fine-Tuning, Agentic AI, Trustworthy AI

Research Interests: Reinforcement Learning, Agentic AI, Foundation Model, Post-Training

Skills: Python, Java, Matlab, PyTorch, Git, etc.

University of California, Berkeley (UCB), Electrical Engineering & Computer Sciences Berkeley, CA, USA
Overall GPA: 4.0/4.0 *Visiting Student with Merit Scholarship* 2022.01 - 2022.06

Core Courses: Data Structure (A+), Java: Discovering its Power (rank 1st), Principals & Techniques of Data Science (A)
Designing, Visualizing and Understanding Deep Neural Network (A)

South China University of Technology (SCUT), School of Automation Science & Engineering Guangzhou, China
Bachelor of Engineering in Intelligent Science and Technology (Outstanding Graduate) 2019.09 - 2023.06

Overall GPA: 3.82/4.0

Selected Research Papers

- **[Vision-language model, Retrieval-augmented generation]** Yequan Bie, et al. Knowledge-Enhanced Explainable Prompting for Vision-Language Models. *AAAI*, 2026. (Published)
- **[Vision-language model, Trustworthy AI]** Yequan Bie, et al. MICA: Towards Explainable Skin Lesion Diagnosis via Multi-Level Image-Concept Alignment. *AAAI*, 2024. (Published)
- **[Vision-language model]** Yequan Bie, et al. XCoOp: Explainable Prompt Learning for Computer-Aided Diagnosis via Concept-guided Context Optimization. *MICCAI*, 2024. (Published)
- **[Vision-language model, Trustworthy AI]** Yuxiang Nie*, Sunan He*, Yequan Bie* (co-first author), et al. An Explainable Biomedical Foundation Model via Large-Scale Concept-Enhanced Vision-Language Pre-training. *Nature Biomedical Engineering (IF:26.8)*, 2026. (Accepted)
- **[Vision-language model, Adversarial attack]** Peng Xie*, Yequan Bie* (co-first author), et al. Chain of Attack: On the Robustness of Vision-Language Models Against Transfer-Based Adversarial Attacks. *CVPR 2025*. (Published)
- **[Multimodal large language model, Post-training, Reinforcement fine-tuning]** Yequan Bie, et al. A paper about Visual Reinforcement Fine-Tuning is under review at *ECCV 2026*. (ECCV under review, 2026)
- **[Agent, Multimodal large language model, Post-training, Reinforcement fine-tuning]** Yequan Bie, et al. A paper about Agent and MLLM post-training for medical image interpretation is ongoing. (In progress, 2026)
- **[Multimodal large language model, Retrieval-augmented generation]** Sunan He*, Yequan Bie* (co-first author), et al. A paper about the SOTA medical generalist multimodal large language model is ongoing. (In progress, 2026)
- **[Multimodal large language model]** Zhixuan Chen, Yequan Bie, et al. Large Language Model with Region-guided Referring and Grounding for CT Report Generation. *IEEE Transactions on Medical Imaging*, 2025 (Published)
- **[Agent, Large language model]** Peng Xie, Xingyuan Liu, Yequan Bie, et al. SwitchLingua: The First Large-Scale Multilingual and Multi-Ethnic Code-Switching Dataset. *NeurIPS*, 2025. (Accepted)
- **[Multimodal large language model]** Zhixuan Chen, Luyang Luo, Yequan Bie, et al. Dia-LLaMA: Towards Large Language Model-driven CT Report Generation. *MICCAI*, 2025. (Published)
- **[Foundation model]** Zhixuan Chen, ..., Yequan Bie, et al. Segment Anything in Pathology Images with Natural Language. *arXiv preprint*, 2025. (Nature Computational Science under review, 2026)

Selected SCHOLARSHIPS & AWARDS

HKUST RedBird PhD Award/Scholarship (twice)	2023.08 / 2025.07
Excellent Graduation Thesis Award at SCUT	2023.06
UC Berkeley Extension SAF Merit Scholarship	2022.01
China National Scholarship (Top 0.2%)	2021.12
First-class MEAN WELL Scholarship, SCUT (Top 1%, twice)	2021.04 / 2022.04
First-class Scholarship provided by Hongping Evergreen Fund (twice)	2021.07 / 2022.07

PROFESSIONAL EXPERIENCE

ByteDance | Product Development and Engineering Architecture Department (Intern) | Beijing

Big Data Development Engineer Intern

2022.09 – 2023.01