

# 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, Trustworthy/Explainable AI, Medical Image Analysis  
**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 1<sup>st</sup>), 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

- **Yequan Bie**, et al. Knowledge-Enhanced Explainable Prompting for Vision-Language Models. *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, 2026. (Published)
- **Yequan Bie**, et al. MICA: Towards Explainable Skin Lesion Diagnosis via Multi-Level Image-Concept Alignment. *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, 2024. (Published)
- **Yequan Bie**, et al. XCoOp: Explainable Prompt Learning for Computer-Aided Diagnosis via Concept-guided Context Optimization. *International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI)*, 2024. (Published)
- 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)
- Peng Xie\*, **Yequan Bie\*** (co-first author), et al. Chain of Attack: On the Robustness of Vision-Language Models Against Transfer-Based Adversarial Attacks. *Proceedings of the Computer Vision and Pattern Recognition Conference (CVPR)*, 2025. (Published)
- **Yequan Bie**, et al. A paper about Visual Reinforcement Fine-Tuning and Medical Reasoning is under review at *ECCV 2026*.
- Zhixuan Chen, **Yequan Bie**, et al. Large Language Model with Region-guided Referring and Grounding for CT Report Generation. *IEEE Transactions on Medical Imaging (IEEE TMI)*, 2025. (Published)
- Peng Xie, Xingyuan Liu, **Yequan Bie**, et al. SwitchLingua: The First Large-Scale Multilingual and Multi-Ethnic Code-Switching Dataset. *NeurIPS*, 2025. (Accepted)
- Junlin Hou, Sicen Liu, **Yequan Bie**, et al. Self-eXplainable AI for Medical Image Analysis: A Survey and New Outlooks. *arXiv preprint*, 2024. (IEEE TMI 2026 under review)
- Zhixuan Chen, Luyang Luo, **Yequan Bie**, et al. Dia-LLaMA: Towards Large Language Model-driven CT Report Generation. *International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI)*, 2025. (Published)
- Zhixuan Chen, ..., **Yequan Bie**, et al. Segment Anything in Pathology Images with Natural Language. *arXiv preprint*, 2025. (Nature Computational Science 2026 under review)

## 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