

# Tiexin Qin

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PhD Candidate at CityU

My research interests include machine learning for complex dynamical systems, neural differential equations, transfer learning, and their various applications.

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## Education

**City University of Hong Kong**, Doctor of Philosophy 2021 - now  
Department of Electrical Engineering  
Supervisor: [Haoliang Li](#)

**Nanjing University**, Master of Computer Technology 2018 - 2021  
Department of Computer Science and Technology  
Supervisor: [Yinghuan Shi](#)  
Thesis title: A Study of Data Augmentation-Based Few-Shot Learning Algorithms

**China University of Mining and Technology**, Bachelor of Engineering 2014 - 2018  
Department of Computer Science and Technology  
*Graduated with Outstanding Honor*

## Experience

**University of Oxford, Mathematical Institute**, Visiting student Feb 2024 - Apr 2024  
Characterization of molecular dynamics, supervised by [Terry Lyons](#)

**Meituan, AI lab**, Research Intern Jul 2020 - Nov 2020  
Video keyframe extraction for content review, supervised by [Lin Ma](#)

## Awards and Honors

**Research Tuition Scholarship** 2024  
Student with outstanding academic performance in City University of Hong Kong

**Outstanding Undergraduate** 2018  
Awarded to Top 10% students in China University of Mining and Technology

**China National Scholarship** 2016  
The highest scholarship for undergraduate students studying in China

## Publications ([Google Scholar](#))

- Jie Liu, **Tiexin Qin**, Hui Liu, Yilei Shi, Lichao Mou, Xiao Xiang Zhu, Shiqi Wang, Haoliang Li. “Q-PART: Quasi-Periodic Adaptive Regression with Test-time Training for Pediatric Left Ventricular Ejection Fraction Regression”. *The IEEE / CVF Computer Vision and Pattern Recognition Conference, (CVPR 2025)*
- Tiexin Qin**, Mengxu Zhu, Chunyang Li, Terry Lyons, Hong Yan, Haoliang Li. “Deep Signature: Characterization of Large-Scale Molecular Dynamics”. *International Conference on Learning Representations, (ICLR 2025)*
- Kecheng Chen, Pingping Zhang, **Tiexin Qin**, Shiqi Wang, Hong Yan, Haoliang Li. “Test-time adaptation for image compression with distribution regularization”. *International Conference on Learning Representations, (ICLR 2025)*

4. Kecheng Chen, **Tiexin Qin**, Victor Ho-Fun Lee, Hong Yan, Haoliang Li. “[Learning Robust Shape Regularization for Generalizable Medical Image Segmentation](#)”. *IEEE Transactions on Medical Imaging (TMI 2024)*
5. Benjamin Walker, Andrew D McLeod, **Tiexin Qin**, Yichuan Cheng, Haoliang Li, Terry Lyons. “[Log Neural Controlled Differential Equations: The Lie Brackets Make a Difference](#)”. *International Conference on Machine Learning, (ICML 2024)*
6. **Tiexin Qin**, Shiqi Wang, Haoliang Li. “[Evolving Domain Generalization via Latent Structure-Aware Sequential Autoencoder](#)”. *IEEE Transactions on Pattern Analysis and Machine Intelligence, (TPAMI, 2023)*
7. Wenbin Li, Chuanqi Dong, Pinzhuo Tian, **Tiexin Qin**, Xuesong Yang, Ziyi Wang, Jing Huo, Yinghuan Shi, Lei Wang, Yang Gao, Jiebo Luo. “[LibFewShot: A Comprehensive Library for Few-shot Learning](#)”. *IEEE Transactions on Pattern Analysis and Machine Intelligence, (TPAMI 2023)*
8. **Tiexin Qin**, Shiqi Wang, Haoliang Li. “[Generalizing to Evolving Domains with Latent Structure-Aware Sequential Autoencoder](#)”. *International Conference on Machine Learning, (ICML 2022)*
9. Ziteng Liu, Yinghuan Shi, Hongwei Chen, **Tiexin Qin**, Xuejie Zhou, Jun Huo, Hao Dong, Xiao Yang, Xiangdong Zhu, Xuening Chen, Li Zhang, Mingli Yang, Yang Gao, Jing Ma. “[Machine Learning on Properties of Multiscale Multisource Hydroxyapatite Nanoparticles Datasets with Different Morphologies and Sizes](#)”. *npj Computational Materials 2021*
10. **Tiexin Qin**, Ziyuan Wang, Kelei He, Yinghuan Shi, Yang Gao, Dinggang Shen. “[Automatic Data Augmentation via Deep Reinforcement Learning for Effective Kidney Tumor Segmentation](#)”. *IEEE International Conference on Acoustics, Speech and Signal Processing, (ICASSP 2020)*
11. **Tiexin Qin**, Hong Yan, Haoliang Li. “[Generalize to New Dynamical Systems via Frequency Domain Adaptation](#)”. *In submission to IEEE Transactions on Pattern Analysis and Machine Intelligence, (TPAMI, Major Revision)*
12. **Tiexin Qin**, Benjamin Walker, Terry Lyons, Hong Yan, Haoliang Li. “[Learning Dynamic Graph Embeddings with Neural Controlled Differential Equations](#)”. *In submission to IEEE Transactions on Pattern Analysis and Machine Intelligence, (TPAMI, Under Review)*
13. **Tiexin Qin**, Wenbin Li, Yinghuan Shi, Yang Gao. “[Diversity Helps: Unsupervised Few-shot Learning via Distribution Shift-based Data Augmentation](#)”. *arXiv:2004.05805*
14. Yinghuan Shi, **Tiexin Qin**, Yong Liu, Jiwen Lu, Yang Gao, Dinggang Shen. “[Automatic data augmentation by learning the deterministic policy](#)”. *arXiv:1910.08343*

## Teaching

CityU EE5434, Machine Learning for Signal Processing Applications Teaching Assistant	2022, 2023
CityU EE5811, Topics in Computer Vision Teaching Assistant	2022
CityU EE3206, Java Programming & Application Teaching Assistant	2021, 2024, 2025

## Academic Service

- **Conference Reviewer**  
SIGKDD (2022), ICME (2022), ICASSP (2023, 2024), WACV (2023, 2024), MMSP (2022), WWW (2024), NeurIPS (2024), ICLR (2025), CVPR (2025), ICML (2025), ICCV (2025)

- **Journal Reviewer**

IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)  
Journal of Intelligent & Fuzzy Systems

## **Professional Skills**

Programming language: Python, C++, Java, MATLAB, Latex.  
Deep learning frameworks: Pytorch, Keras.