Yiming Qin

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LTS4 - EPFL, Lausanne, Switzerland

ABOUT ME

I am a third-year Ph.D. candidate at EPFL, passionate about generative models, especially for their application to graphs, and their potential in drug discovery and beyond. My interests also span enhancing control over generative models, graph machine learning, and neural network explainability.

EDUCATION

• École polytechnique fédérale de Lausanne (EPFL)

Feb. 2023 - Feb. 2027

Ph.D. Candidate in Computer and Communication Sciences (EDIC)

Lausanne, Switzerland

- Research Interests: Generative models, Graph machine learning, Drug discovery, Explainability.
- Supervisor: Pascal Frossard

• Shanghai Jiao-Tong University (SJTU)

Sept. 2021 – Feb. 2023

ME in Information Engineering, School of Electronic, Information and Electrical Engineering (SEIEE)

Shanghai, China

o GPA: 3.98/4.00

Supervisor: Yanfeng Wang & Ya Zhang

• École Polytechnique (X)

Mar. 2019 - Aug. 2021

Ingénieur diplômé de l'École polytechnique (Master level), dual degree program with SJTU

Paris, France

o GPA: 3.80/4.00

• Shanghai Jiao-Tong University (SJTU)

Sept. 2016 – Sept. 2020

BE in Information Engineering, Department of SJTU – Paris Elite Institute of Technology (SPEIT)

Shanghai, China

o GPA: 3.92/4.00

PUBLICATIONS

- [2025] Yiming Qin *, Manuel Madeira *, Dorina Thanou, Pascal Frossard. **DeFoG: Discrete Flow Matching for Graph Generation** In *International Conference on Machine Learning (ICML) Oral presentation*.
- [2023] Yiming Qin, Clément Vignac, P Frossard. Sparse Diff: Sparse Discrete Diffusion for Scalable Graph Generation In Transactions on Machine Learning Research (TMLR). []
- [2023] Yiming Qin, Huangjie Zheng, Jiangchao Yao, Mingyuan Zhou, Ya Zhang. Class-balancing diffusion models In Conference on Computer Vision and Pattern Recognition (CVPR). []

WORK EXPERIENCE

Teaching Assistant

Sept. 2023 - Now

EPFL, Lausanne

• Network Machine Learning & Probability and Statistics & Introduction to Programmation.

• Quantitative Researcher

Oct. 2022 - Jan. 2023

Luoshu Investment Company, Shanghai

- Automated factor filtering/building pipeline.
- \circ Overall survey on the lead-lag effect and developed corresponding trading strategies.

Research Assistant

Mar. 2021 - Aug. 2021

École Normale Supérieure (ENS), Paris

- Propose a multi-task model that produces robust representations for noisy microscopic cell sequences.
- Introduce SynDiv, a well-labeled synthetic dataset simulating the cell splitting process.
- Propose a quantitative evaluation pipeline and a global metric to systematically compare methods for extracting dynamical features from unlabeled video microscopies.

Developer

June. 2019 - Sept. 2019

Luoshu Investment Company, Shanghai

Develop a general back-testing and factor analysis platform by merging three existing platforms.

SKILLS

- Software skills: Python, Pytorch, LaTeX, Git, RunAI, Docker, Java, C++, MATLAB
- Languages: English (TOEFL 104), French (TCF C1), Mandarin (Native), Japanese (Beginner)

EXTRACURRICULAR ACTIVITIES

- OxML (2024): Machine Learning Summer School at University of Oxford (AI for Global Goals).
- LoG (2023): Learning on Graphs Conference local meetup.

HONORS AND AWARDS

• EDIC Fellowship	2023
EPFL	
• 3rd place in the Huawei Research France Competition (Transfer learning on home network) Huawei	2021
• 2nd place in the Graph Drawing Contest 2021 (Live Challenge: Automatic) Graph Drawing Contest	2021
• Meritorious Winner of Mathematical Contest in Modeling (Top 7%) Mathematical Contest in Modeling	2019
• Shanghai Jiao Tong University SMC Scholarship SJTU	2018
• Shanghai Jiao Tong University B Grade Merit Scholarship for the 2016-2017 academic year SJTU	2018
• SPEIT ARDIAN Scholarship for the academic year of 2016-2017 SPEIT - SJTU	2017
ADDITIONAL INFORMATION	

Interests: Singing (A Cappella/Choir), Painting, Writing, Reading, Foodie, Frisbee and Swimming.