

Shuangqi Li

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EDUCATION

EPFL (Swiss Federal Institute of Technology of Lausanne) <i>PhD in Machine Learning</i>	<i>Lausanne, Switzerland</i> Sept 2022 – present
EPFL (Swiss Federal Institute of Technology of Lausanne) <i>Master in Data Science</i>	<i>Lausanne, Switzerland</i> Sept 2020 – July 2022
University of California, San Diego <i>Master in Computer Science</i> (Quit due to visa issues and COVID-19.)	<i>Remote</i> Sept 2019 – June 2020
University of Electronic Science and Technology of China <i>Bachelor in Microelectronic Science and Engineering</i>	<i>Chengdu, China</i> Sept 2015 – June 2019

WORK EXPERIENCE

Research Intern <i>Oracle Labs</i>	<i>Zurich, Switzerland</i> July 2021 – Sept 2021
<ul style="list-style-type: none">Developed a machine learning model that detects anomalous Linux sessions in the cloud servers.	
Algorithm Engineering Intern <i>Didi Chuxing (China's largest taxi-hailing platform)</i>	<i>Beijing, China</i> Oct 2018 – Feb 2019
<ul style="list-style-type: none">Developed an algorithm for learning road segment weights from historical ride data, improving route planning quality for ride-hailing services.	

PROJECTS

Efficient Training Data Attribution for Large Language Models Ongoing research	<i>Aug 2025 – present</i>
<ul style="list-style-type: none">Training Data Attribution faces severe computational challenges for modern-sized LLMs.We improved conventional influence functions by exploiting the low-rank property of the gradient to make them more efficient and scalable.	
Improving Waste Detection and Sorting on Conveyor Belt Supervising two semester projects:	<i>Sept 2025 – present</i> <i>WasteFlow, Switzerland</i>
<ul style="list-style-type: none">YOLO uncertainty estimation and confidence recalibration.Real-time object brand recognition on conveyor belts.	
Learning to Weight Parameters for Training Data Attribution Submitted to ICLR 2026. arXiv 	<i>Feb 2025 – Sept 2025</i>
<ul style="list-style-type: none">Identified the heterogeneity of attribution strengths across parameters/layers.Proposed a method to re-weight layers, boosting attribution accuracy and enabling fine-grained attribution.	
Enhancing Text-to-Image Generation with Reliable Random Seeds ICLR 2025 Spotlight. arXiv 	<i>Jan 2024 – Oct 2024</i>
<ul style="list-style-type: none">Identified the significant role of initial noise in text-to-image inconsistencies.Proposed a method to mine reliable random seeds to improve text-to-image generation.	
Controlling the Fidelity and Diversity of Deep Generative Models TMLR 2024 (poster presentation at ICLR 2025). arXiv 	<i>Feb 2023 – Mar 2024</i>

- Proposed an approach to bias deep generative models, such as GANs and diffusion models, towards generating data with either enhanced fidelity or increased diversity.

Interlock-Free Multi-Aspect Rationalization for Text Classification

Sept 2021 – Feb 2022

Semester project. [arXiv](#) 

- Proposed a multi-stage training method to alleviate the interlocking issue in selective rationalization.

TEACHING EXPERIENCE

- **CS-233: Introduction to Machine Learning** – Head Teaching Assistant Spring 2025
- **CS-401: Applied Data Analysis** – Teaching Assistant Fall 2024
- **CS-233: Introduction to Machine Learning** – Teaching Assistant Spring 2024
- **COM-407: TCP/IP Networking** – Teaching Assistant Fall 2023
- **COM-112: Object-Oriented Programming (in C++)** – Teaching Assistant Spring 2023
- **CS-456: Deep Reinforcement Learning** – Student Teaching Assistant Spring 2022

HONORS & AWARDS

- National Scholarship Sept 2018
- China Collegiate Programming Contest – GOLD MEDAL May 2018
- China Collegiate Computing Contest – FIRST PRIZE Mar 2018
- First-class People's Scholarship Dec 2017
- ACM ICPC (Asia Regional) – BRONZE MEDAL Oct 2017
- China Collegiate Computing Contest – FIRST PRIZE Apr 2017
- First-class People's Scholarship Dec 2016

SKILLS

Programming: Proficient with Python, C++

Frameworks & Tools: PyTorch, Docker, Git, Linux, Cursor, Claude Code

Languages: Chinese (native), English (fluent), French (basic)

PUBLICATIONS

Learning to Weight Parameters for Data Attribution

Shuangqi Li, Hieu Le, Jingyi Xu, and Mathieu Salzmann

[arXiv:2506.05647](#) 

Submitted to ICLR 2026

Enhancing Compositional Text-to-Image Generation with Reliable Random Seeds

Shuangqi Li, Hieu Le, Jingyi Xu, and Mathieu Salzmann

[ICLR 2025](#) 

Spotlight (top 4%)

Controlling the Fidelity and Diversity of Deep Generative Models via Pseudo Density

Shuangqi Li, Chen Liu, Tong Zhang, Hieu Le, Sabine Süsstrunk, and Mathieu Salzmann

[TMLR 2024](#) 

Presented at ICLR 2025

Interlock-Free Multi-Aspect Rationalization for Text Classification

Shuangqi Li, Diego Antognini, and Boi Faltings

[arXiv:2205.06756](#) 