

# Shuangqi Li

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## Education

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




## Work Experience

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| <b>Research Intern</b><br>Oracle Labs   | Zurich, Switzerland<br>July 2021 – Sept 2021 |
| ◦ Developed a machine learning model that detects anomalous Linux sessions in the cloud servers.  |  |
| <b>Algorithm Engineering Intern</b><br>Didi Chuxing (China's largest taxi-hailing platform)   | Beijing, China<br>Oct 2018 – Feb 2019        |
| ◦ Developed an algorithm for learning road segment weights from historical ride data, improving route planning quality for ride-hailing services. |  |

## Projects

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| <b>Efficient Training Data Attribution for Large Language Models</b><br>Ongoing research   | Aug 2025 – present                            |
| ◦ 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.   |   |
| <b>Improving Waste Detection and Sorting on Conveyor Belt</b><br>Supervising two semester projects:  | Sept 2025 – present<br>WasteFlow, Switzerland |
| ◦ YOLO uncertainty estimation and confidence recalibration.  |   |
| ◦ Real-time object brand recognition on conveyor belts.  |   |
| <b>Learning to Weight Parameters for Training Data Attribution</b><br>Submitted to ICLR 2026. <a href="#">arXiv</a>                             | Feb 2025 – Sept 2025                          |
| ◦ Identified the heterogeneity of attribution strengths across parameters/layers.  |   |
| ◦ Proposed a method to re-weight layers, boosting attribution accuracy and enabling fine-grained attribution.  |   |
| <b>Enhancing Text-to-Image Generation with Reliable Random Seeds</b><br>ICLR 2025 Spotlight. <a href="#">arXiv</a>                              | Jan 2024 – Oct 2024                           |
| ◦ 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.   |   |
| <b>Controlling the Fidelity and Diversity of Deep Generative Models</b><br>TMLR 2024 (poster presentation at ICLR 2025). <a href="#">arXiv</a>  | Feb 2023 – Mar 2024                           |

- 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

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- **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

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- 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

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**Programming:** Proficient with Python, C++

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

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

## Publications

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### Learning to Weight Parameters for Data Attribution

[arXiv](#) 

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

Submitted to ICLR 2026

June 2025

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

[ICLR 2025](#) 

Spotlight (top 4%)

Oct 2024

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

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

[TMLR 2024](#) 

Presented at ICLR 2025

July 2024

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

### Interlock-Free Multi-Aspect Rationalization for Text Classification

[arXiv](#) 

May 2022

Shuangqi Li, Diego Antognini, and Boi Faltings