# Yan Lu

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## Summary

I am a fourth-year Ph.D. student in Computer Science at New York University advised by Sam Bowman. In my research, I'm interested in efficiency of on-device machine learning systems and algorithms. Recently, I have focused on computation efficiency of vision transformer models and data efficiency of continuous learning systems.

## Education

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|---|---|
| PhD (Computer Science) @ **New York University** | 2018 - present |
| Master (Data Science) @ **Purdue University** | 2016 - 2018 |
| Bachelor (Software Engineering) @ **SiChuan University** | 2012 -2016 |

## Publications

[**AAAI 2023 (Oral)**] **Yan Lu**, Zhun Zhong, Yuanchao Shu. "Multi-View Domain Adaptive Object Detection in Surveillance Cameras". *AAAI 2023* arXiv preprint

[**SenSys 2022**] **Yan Lu**, Shiqi Jiang, Ting Cao, Yuanchao Shu. "Turbo: Opportunistic Enhancement for Edge Video Analytics". *ACM SenSys 2022.* PDF

[**TIOT 2022**] Zheng Dong, **Yan Lu**, Guangmo Tong, Yuanchao Shu, Shuai Wang, Weisong Shi. "Watch-Dog: Real-time Vehicle Tracking on Geo-distributed Edge Nodes". *ACM Transactions on Internet of Things, 2022.* PDF

[**SEC 2019**] **Yan Lu**, Yuanchao Shu, Xu Tan, Yunxin Liu, Mengyu Zhou, Qi Chen and Dan Pei. "Collaborative Learning between Cloud and End Devices: An Empirical Study on Location Prediction". In *the Fourth ACM/IEEE Symposium on Edge Computing, 2019.* PDF

## Work Experience

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|---|---|
| **Research Intern** @ Microsoft Research in Asia, CN | Nov. 2022 - May. 2023 |
| Mentor: Dr. Shiqi Jiang | Topic: continuous edge-ai systems |
| **Software Engineer Intern** @ Airbnb, US | Jul. 2020 - Sept. 2020 |
| Mentor: Dr. Wei Zhang | Topic: mobile recommendation systems |
| **Research Intern** @ Microsoft Research in Asia, CN | Feb. 2018 - Aug. 2018 |
| Mentor: Dr. Yuanchao Shu & Dr. Yunxin Liu | Topic: collaborative learning systems |
| **Research Assistant** @ Chinese Academy of Sciences, CN | Feb. 2016 - Aug. 2016 |
| Mentor: Dr. Xinhua Zeng | Topic: intelligent palm print recognition systems |

## Skills

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|---|---|
| Language: | English, Chinese |
| Programming: | Python, Shell, C++ |
| Math: | Machine Learning, Deep Learning, Convex Optimization |
| Framework: | Pytorch (Meta), MNN (Alibaba), Triton (Nvidia) |
| Tools: | Linux, CMake, Git, Docker |