

CHONLAM LAO
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SEC 4.431, 150 Western Ave, Allston, MA 02134

ME

Second-year PhD Student in Harvard interested in Networked Systems, ML Systems advised by Prof. Minlan Yu and Prof. Aditya Akella.

WORK EXPERIENCE

- Student Researcher @ Google, Remote in MA** Sep 2022 - Present
Accelerating distributed training by network scheduling.
- Research Intern @ Google, Sunnyvale CA** Jun 2022 - Sep 2022
Accelerating distributed training by network scheduling.
- Visiting Scholar @ University of Wisconsin–Madison, Madison WI** Sep 2019 - Feb 2020
Built an in-network aggregation service to accelerate distributed training in multi-tenant multi-rack networks with programmable switches.
- Research Assistant @ The University of Hong Kong, Hong Kong S.A.R.** Jun 2017 - Sep 2017
Implemented Machine Learning model (CNN) to improve the accuracy of variant calling software, doing experiments and benchmarking.

EDUCATION

- Harvard University, Boston (advised by Prof. Minlan Yu and Prof. Aditya Akella)** 2021 - Present
PhD of Computer Science, Year 2
- Tsinghua University, Beijing (advised by Prof. Wenfei Wu)** 2018 - 2021
Master of Computer Science
Outstanding Graduates, 78 of 5650 \approx 1.38%
Outstanding Thesis Award, “ATP: In-network Aggregation for Multi-tenant Learning”
- National Cheng Kung University, Taiwan** 2015 - 2018
Bachelor of Computer Science & Information Engineering
2nd place Outstanding Graduation Project
GPA 3.91/4.3, Top 10% ranking

SELECTED PRESS

- Tsinghua University - receives Best Paper Award of NSDI 2021 ([CN](#)|[EN](#))

ACADEMIC SERVICES & TALKS

- Gave talks at SIGMETRICS’21 (Highlights beyond SIGMETRICS)
- Reviewer of IEEE/ACM Transactions on Networking (TON)
- Recognized NSDI’22 external reviewer

PUBLICATIONS

- “ATP: In-network Aggregation for Multi-tenant Learning”, **ChonLam Lao**, Yanfang Le, Kshiteej Mahajan, Yixi Chen, Wenfei Wu, Aditya Akella, Michael Swift, NSDI 2021, Boston, MA, USA. (**Best Paper Award**)
- “Efficient Data-Plane Memory Scheduling for In-Network Aggregation”, Hao Wang, Yuxuan Qin, **ChonLam Lao**, Yanfang Le, Wenfei Wu, Kai Chen, ArXiv 2021.
- “Detecting DDoS Attack in Software-Defined Network (SDN) through Convolutional Neural Network”, **ChonLam Lao**, K.-Y. Liow, and M.-H. Tsai, 22th Mobile Computing Conference, Kaosiung, August 2017 (Chinese Publication)

AWARDS AND ACHIEVEMENTS

Achievements

- Outstanding Graduates at Tsinghua University
- Outstanding Thesis Award at Tsinghua University
- Top 6% in 2017 Taiwan Collegiate Programming Examination

- Bronze Prize of 2017 ACM-ICPC Asia Taiwan Regional Contest
- Silver Reward of 2014 Macao Olympiad in Informatics (MOI)
- Second Prize of 2013 National Olympiad in Informatics in Province (NOIP)
- Silver Reward of 2013 Macao Olympiad in Informatics (MOI)
- Second Prize of 2012 National Olympiad in Informatics in Province (NOIP)
- Silver Reward of 2012 Macao Olympiad in Informatics (MOI)

Awards

- Student Travel Grant NSDI'21
- The Baogang Scholarship (2020 - 2021)
- First price of Tsinghua University Scholarship MO/HK/TW (2018 - 2020)
- Macau Government Scholarship for Master Student (2018 - 2020)
- Taiwan Government Scholarship for Oversea Student (2015 - 2018)
- Macau Government Scholarship (2015 - 2018)

TEACHING EXPERIENCES

- Advanced Competitive Programming, National Cheng Kung University 2017, CSIE7557
- Security Technologies in Cyberspace, Tsinghua University, 2018

OTHER LINKS

- Github - <https://github.com/laochonlam>
- Personal website - <https://laochanlam.com/>