

# Chon Lam, LAO

MACAU S.A.R.

Master's Student Research in Networked Systems, ML Systems

Phone Number: +86 13811735715

Email: [lao120961@hotmail.com.hk](mailto:lao120961@hotmail.com.hk)

## EDUCATION

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### Tsinghua University, Beijing

Master of Computer Science, 2018 - now (third-year, pursuing)

### National Cheng Kung University, Taiwan

Bachelor of Computer Science & Information Engineering, 2015 - 2018

(GPA 3.91/4.3 with Top 10% ranking, one-year earlier graduation)

## INTERESTS & KEYWORDS

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Software-Defined Network - - - Ryu, OpenFlow, In-network Computation

Distributed Training - - - - - Pytorch, Tensorflow, BytePS

Network Programming - - - - - RDMA, DMA

Programming Language - - - - - P4, C, C++, Python, Java

## EXPERIENCE

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### Visiting Scholar,

University of Wisconsin-Madison (UWM);

2019 - 2020

To work on the independent study of building an in-network aggregation service to accelerate DT jobs in multi-tenant multi-rack networks by P4 programmable switches under the supervision of Professor Aditya Akella. Focus on the best effort in-network aggregation primitive by co-designing the hardware-software and the end-host networking stack.

### Research Assistant,

The University of Hong Kong (HKU);

2017 - 2017

Three months of summer Internship in HKU, responsible for implementing the Machine Learning model (CNN) to improve the accuracy of variant calling software, doing experiments and benchmarking.

### Teaching Assistant,

Tsinghua University (THU);

National Cheng Kung University (NCKU);

2017 - 2019

As a teaching assistant and lecturer of the course "Advanced Competitive Programming" in NCKU, familiar with a great variety of data structures and algorithms. As the teaching assistant of "Security Technologies in Cyberspace" in THU in the first year of the Master's program.

### Network Administrator,

National Cheng Kung University (NCKU);

2016 - 2018

Applying CCNA to organize and manage the network environment and servers as a part-time network administrator at the Department of MLSB at NCKU.

### Project Executor,

Ministry of Science and Technology of Taiwan;

2017 - 2017

Received government funding and held the undergraduate student research project in "Detecting DDoS Attack in Software-Defined Network through Convolutional Neural Network" in Taiwan.

# REWARDS & QUALIFICATIONS

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## - Algorithm

- 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 )

## - Networking

- Gold Reward of 11 TH HK / MO Youth Network Skills Competition CISCO
- Silver Reward of 10 TH HK / MO Youth Network Skills Competition CISCO
- Cisco Certified Network Associate ( CCNA )

## - Scholarships

- 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 )

# CONFERENCES & PUBLICATIONS

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- "ATP: In-network Aggregation for Multi-tenant Learning",  
( as the first author, one-shot revisioning on NSDI'21 Fall)
- "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 )

# RELATED LINKS

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Github - <https://github.com/laochanlam>

Lam's Tech Blog - <https://blog.laochanlam.com/>