

# Xuanlong Qin

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## EDUCATION

### **Peking University**, Beijing, China

- School of Electronic and Computer Engineering
- M.Sc. in Computer Science Sep 2015 – Jul 2018

### **National Tsing Hua University**, Hsin-chu, Taiwan

- Computer Science and Information Engineering
- Non-degree in Computer Science (Exchange Student) Apr 2017 – Oct 2017

### **China University of Mining and Technology**, Xuzhou, Jiangsu, China

- School of Information and Electrical and Engineering
- B.E. in Electronic Engineering Sep 2011 – Jul 2015

## ENGLISH SKILLS

IELTS: Overall: 6.5 (Subscores: 6)

## PUBLICATIONS

### JOURNALS

- [1] X. Qin, D. li, “High Speed Data Transport Technology for Datacenter Network,” in *Computer engineering and Software*, vol. 37,no. 9,pp. 1–8, Sep 2016. In Chinese.

### CONFERENCES

- [1] X. Qin, D. Li, C. Chen, and N. Huang “ Early Notification and Dynamic Routing: An Improved SDN-based Optimization Mechanism for VM Migration,” in *CollaborateCom 2017*, Edingurgh, UK, Dec 2017.Oral.
- [2] X. Qin, D. li, “High Speed Data Transport Technology for Datacenter Networks,” in *NCCA 2016*, Tangshan, Hebei, China, Apr 2016.Excellent conference papers to journals.

## AWARDS & SCHOLARSHIPS

- National Grants ,Peking University,(Three consecutive years) 2015 – 2018
- Special scholarships, Peking University,(Three consecutive years) 2015 – 2018
- The third scholarships, China University of Mining and Technology Sep 2013
- The Second Prize of Physics Olympic (Qualification of university entrance examination) Dec 2008

## WORK EXPERIENCE

### **Tencent Cloud(Accelerate Product Center)- Tencent**

Shenzhen, China

- Learning content delivery network (CDN) architecture and Global Server Load Balance(GSLB) in Tencent which had serviced hundreds of millions of people on the Internet Jul 2018 – Sep 2019
  - As the team member explore the new direction of PCDN, which combining P2P and CDN technology which could reduce network upstream traffic and increase cache hit rate. This technology has been used by Douyu and Huya (China TOP2 live broadcasting company).
  - Help multiple small and medium operators switch to CAP platform, which helps small operators reduce network delay effectively.

### **Tencent Cloud(Video Product Center) - Tencent**

Shenzhen, China

- Supporting special billing items for Video on Demand and Media Processing Service, construct billing logic of VOD and MPS independently Sep 2019 – present
  - Deploying over 200 billing items on online environment service more than 20,000 customers for transaction everyday
  - Improve data reporting mechanism and billing statistics mechanism which can be useful for data analysis and usage statistics

## RESEARCH EXPERIENCES

### **Virtual Machine live migration and Transmission protocol optimization (TCP) in Data Center**

Shenzhen, China

- Team Leader Sep 2015 – Jun 2016
  - Research about several methods of congestion control in Ethernet and applied them in the scenery of vm migration

- Study the feasibility of new networks' Architecture and conduct performance optimization, mainly focus on RDMA, pFabric, SDN,etc.

### **Virtual Machine Live Migration in software-defined network**

Hsin-chu, Taiwan

- **Team Leader** Apr 2017 – May 2018
  - Propose two kinds of algorithm to improve the TCP transmission performance in Datacenter network
  - Proposed a virtual machine migration method based on path optimization in SDN, which could reduce migration time by 30

### **SOCIAL ACTIVITIES**

#### **9th Training Workshop on Applied Social Science Research Methods, Online**

- **Course member** Aug 2020 – Aug 2020
  - learning the method of social science research.

#### **GreenWay China, Guangdong**

- **International Volunteer** Oct 2016 – Oct 2016
  - Protected the sea turtle in Huizhou, Guangdong province.

#### **Peking university Young Volunteers Association, Beijing**

- **Young Volunteers Association** Mar 2017 – Apr 2017
  - As the volunteer focus on Teenagers grow up and provide guidance.

#### **Taiwan LGBT Pride, Taiwan**

- **Participants** Oct 2017 – Oct 2017
  - This annual festival is marked by tens of thousands of people parading through the city, plus numerous after-parties and special events.

### **LANGUAGES**

- **Proficient:** C/C++, Matlab, Verilog, FPGA, Assembly Language.
- **Intermediate:** Python.

### **INTERESTS**

Social Network Analysis, Computer Social Science

### **REFERENCES**

- **Dr. Li (Dagang Li),**
  - Assistant Professor in Peking University and Macau university of science and technology
  - Postdoctorate, University of Leuven
  - Research Area: Communication systems and computer networks
  - **Laboratory in PKU: Center for Internet Research and Engineering (CIRE)**
  - **Laboratory in MUST: International Institute for Next Generation Internet(IINGI)**
- **Dr. Huang (Nen-fu Huang),**
  - Distinguished Professor in Nation Tsing Hua University
  - PhD, Nation Tsing Hua University
  - Research Area: IoT Networks and Applications, MOOCs Learning Data Analysis, Network Security, SDN/NFV Network, High-performance Switches/Routers, Network Flow Classification Technologies
  - **Laboratory: High-Speed Networks Labtory (HSNL)**

### **ADDITIONAL COMMENTS**

- **More information about me as follows:**
  - Xuanlong's Blog: <https://xuanlongq.github.io/>