

Scofield Zhengqing Liu

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◇ Email ◇ LinkedIn ◇ GitHub

EDUCATION

École Polytechnique , Paris, France Master Degree (cum laude) in Internet of Things Supervisors: Prof. Thomas Heide Clausen , Prof. Juan Antonio Cordero	Sep. 2020 - Aug. 2022 3.85/4, Rank 1st
South China University of Technology , Guangzhou, China Bachelor Degree in Electrical Engineering and its Automation	Sep. 2017 - Aug. 2020 86.8/100
Columbia University , New York, United States Summer School in Artificial Intelligence, Intensive American Languages	July 2019 - Aug. 2019

RESEARCH INTERESTS

I am broadly interested in **Systems** and **Networking** research. I have worked on **Programmable Networks** and **Cloud Data Center Systems**.

EXPERIENCE

Max Planck Institute for Informatics (MPI-INF) <i>Research Intern, Network and Cloud System Group</i> Advisor: Prof. Yiting Xia	Saarbrücken, Germany April 2022 - Sep. 2022
<ul style="list-style-type: none">Implement Hop-On Hop-Off routing system (APNet'22) for Optical Data Center Networks (DCNs) on Intel Tofino2 switchDesign time synchronization protocol for Optical DCNs at the precision of nanosecond level, and help implement time-based packet scheduling mechanism(Under Submission) EgoDCN: An End-to-end Implementation of General Optical Data Center Networks	
National Institute for Research in Digital Science and Technology (INRIA) <i>Research Assistant, Delys team (Joint team of INRIA, LIP6, CNRS)</i> Advisor: Prof. Marc Shapiro	Paris, France Dec. 2021 - March 2022
<ul style="list-style-type: none">Implement Query Processing Unit (PaPoc'18), a modular design for geo-distributed querying in the AKKA actor model using Java	
ETH Zurich <i>Research Intern, Networked System Group</i> Advisors: Prof. Laurent Vanbever , Dr. Romain Jacob	Zurich, Switzerland March 2021 - Aug. 2021
<ul style="list-style-type: none">Reproduce Data-Driven Connectivity (NSDI'13), a failure reroute protocol, via P4 software switchesThesis: [Re] Ensuring Connectivity via Data Plane Mechanisms	

AWARDS

1. The École Polytechnique Foundation Scholarship (6,000€), France, 2021
2. Admission Scholarship (6,000€), École Polytechnique, France, 2020
3. First Class Scholarship (top 5%), South China University of Technology, China, 2018
4. Merit Student Award, South China University of Technology, China, 2018

SERVICES

EuroSys 2023 Artifact Evaluation Committee
SIGCOMM 2022 N2Women Workshop Volunteer

COURSEWORK

Advanced Computer Networks, Operating System and Computer Architecture, Parallel and Distributed Algorithms, Database Management System, IoT Workshops, Network Security, Information System Security, Analog and Digital Circuits

SKILLS

Programming skills: C/C++, Java, Python, P4, CUDA, Verilog, SQL, JavaScript

Languages: English, Mandarin, French(B1)