

# Scofield Zhengqing Liu

South Kensington, London, United Kindom

◇ [Website](#) ◇ [Email](#) ◇ [LinkedIn](#) ◇ [GitHub](#)

## RESEARCH INTERESTS

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I am broadly interested in **Systems** and **Networking** research, particularly operating systems (concurrency and scheduling), in-network computing, and distributed systems.

## EDUCATION

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**Imperial College London** Feb. 2023 - Present

Ph.D. student in Computing Research at [Large-Scale Data & Systems group](#)

Advisor: [Prof. Marios Kogias](#)

**École Polytechnique** Sep. 2020 - Aug. 2022

Master Degree (**Honours**) in Internet of Things

3.85/4, Rank **1st**

Supervisors: [Prof. Thomas Heide Clausen](#), Prof. Juan Antonio Cordero

**South China University of Technology** Sep. 2017 - Aug. 2020

Bachelor Degree in Electrical Engineering and its Automation

86.8/100

**Columbia University** July 2019 - Aug. 2019

Summer School in Artificial Intelligence

## EXPERIENCE

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**Max Planck Institute for Informatics (MPI-INF)** Saarbrücken, DE

*Research Intern, Network and Cloud System Group*

Advisor: [Prof. Yiting Xia](#)

April 2022 - Jan. 2023

- Design in-network compute systems for optical datacenter networks on programmable switches (Intel Tofino2) and SmartNICs (Mellanox Connectx-5)

**National Institute for Research in Digital Science and Technology (INRIA)** Paris, FR

*Research Assistant, Delys team (Joint team of INRIA, LIP6, CNRS)*

Advisor: [Prof. Marc Shapiro](#)

Dec. 2021 - March 2022

- Implement modular query processing unit (PaPoc'18) for geo-distributed databases via Java AKKA (actor model)

**ETH Zurich** Zurich, CH

*Research Intern, [Networked System Group](#)*

Advisors: [Prof. Laurent Vanbever](#), [Dr. Romain Jacob](#)

March 2021 - Aug. 2021

- Reproduce data-driven connectivity (NSDI'13), a failure reroute protocol, via P4 software switches
- Thesis: [Re] Ensuring Connectivity via Data Plane Mechanisms

## AWARDS

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1. Doctoral Scholarship Award, Imperial College London, United Kindom, 2023
2. X-Foundation Scholarship (6,000€), École Polytechnique, France, 2021
3. Admission Scholarship (6,000€), École Polytechnique, France, 2020
4. Merit Student Award, South China University of Technology, China, 2018

## SERVICES

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### Artifact Evaluation Committee

- OSDI/ATC 2023
- EuroSys 2023
- JSys 2023
- CoNEXT 2023

### Student Volunteer

- SIGCOMM 2022 (N2Women Workshop)

## COURSEWORK

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

## SKILLS

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**Programming:** C/C++, Java, Python, P4, CUDA

**Languages:** English, Mandarin, French(B1)