

Shaofeng Wu

Ph.D. Candidate

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Education

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|---|---------------------------------|
| • The Chinese University of Hong Kong (CUHK) | Hong Kong SAR, China |
| • Doctor of Philosophy in Computer Science and Engineering | Aug 2022 - July 2026 (expected) |
| • University of Science and Technology of China (USTC) | Anhui, China |
| • Second Bachelor of Engineering in Computer Science and Technology; GPA: 3.71/4.30 | July 2020 - June 2022 |
| • University of Science and Technology of China (USTC) | Anhui, China |
| • Bachelor of Natural Science in Material Physics; GPA: 3.76/4.30 | July 2016 - June 2020 |

Research Direction

- SmartNIC/DPU, Programmable Dataplane
- Cloud, Cloud Network Service, Datacenter Networking

Work Experience

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| • Research Intern , Microsoft Research Asia, Beijing | 2024-2025, Onsite, Full-time |
| • Project: SONiC DASH SmartSwitch | |
| • Research Intern , Microsoft Research Asia, Shanghai | 2021-2022, Remote & Onsite, Full-time |
| • Project: Reliable Driver | |

Publication

- **Shaofeng Wu**, Zhixiong Niu, Riff Jiang, Lawrence Lee, Junhua Zhai, Ze Gan, Vasundhara Volam, Prabhat Aravind, Prince Sunny, Prince George, Qi Luo, Evan Langlais, Soumya Tiwari, Venkat Satish Katta, Weixi Chen, Rishiraj Hazarika, Sachin Jain, Deven Jagasia, Michal Zygmunt, Avijit Gupta, Neeraj Motwani, Pranjal Shrivastava, Qiang Su, Anil Reddy Pannala, Kristina Moore, James Grantham, Anupam Pandey, Xin Liu, Guohan Lu, Gerald De Grace, Rishabh Tewari, Lihua Yuan, Erica Lan, Deepak Bansal, Dave Maltz, Yongqiang Xiong, Hong Xu. Offloading Cloud Network Services at Production Scale with SONiC DASH SmartSwitch, 2025. In *Proc. USENIX NSDI*, 2026. (Conference)
- **Shaofeng Wu[#]**, Qiang Su[#], Zhixiong Niu, Hong Xu. Performance Prediction of On-NIC Network Functions with Multi-Resource Contention and Traffic Awareness. In *Proc. ACM ASPLOS*, 2025. (Conference)
- Qiang Su, **Shaofeng Wu**, Zhixiong Niu, Haodong Chen, Riff Jiang, Lizhao You, Qiao Xiang, Hong Xu, Yongqiang Xiong. NetSophon: Enabling Runtime Copilot for Programmable Dataplane for Cloud Operators. In *Proc. LLM-NET*, 2025. (Workshop)
- Qiang Su, **Shaofeng Wu**, Zhixiong Niu, Ran Shu, Peng Cheng, Yongqiang Xiong, Chun Jason Xue, Zaoxing Liu, and Hong Xu. Meili: Enabling SmartNIC as a service in the cloud. *arXiv preprint arXiv:2312.11871*, 2024. (Preprint)
- Qiang Su, **Shaofeng Wu**, Zhixiong Niu, Ran Shu, Peng Cheng, Yongqiang Xiong, Chun Jason Xue, Zaoxing Liu, Hong Xu. Meili: Towards SmartNIC as a Service. In *Proc. ACM SIGCOMM Demos and Posters*, 2023. (Workshop)

Open-sourcing Contribution

- **SONiC DASH:** [DASH Flow testing PRs](#)
- **SAI:** [DASH-SAI Flow API PRs](#)

Skill

- **Languages:** Chinese (native), English (fluent)
- **Programming:** C, Python, P4
- **Framework:** DPDK, DOCA

Award

- Student Travel Grant, ASPLOS 2025, 2025.4
- Provost's Strategic Allocation of Centrally-Funded RPg Places, 2022-2026
- Outstanding Graduates Award in USTC, June 2020
- Outstanding Graduation Thesis in USTC, June 2020
- Outstanding Undergraduate Scholarship in USTC (4%), 2017, 2018, 2019

伍少枫

博士 (候选人)

中国, 香港特别行政区, 沙田, 香港中文大学, 何善衡工程大楼, 117 房间
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教育经历

- | | |
|------------------------------------|----------------------|
| • 香港中文大学 (CUHK) | 中国, 香港特别行政区 |
| • 计算机科学与工程博士 (Ph.D.) | 2022.8 - 2026.7 (预计) |
| • 中国科学技术大学 (USTC) | 中国, 安徽省 |
| • 计算机科学与技术第二工学学士学位; GPA: 3.71/4.30 | 2020.7 - 2022.6 |
| • 中国科学技术大学 (USTC) | 中国, 安徽省 |
| • 材料物理学理学学士学位; GPA: 3.76/4.30 | 2016.7 - 2020.6 |

研究方向

- 智能网卡/数据处理单元, 可编程数据平面
- 云, 云网络服务, 数据中心网络

工作经历

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|---|--------------------------|
| • 研究实习生, 微软亚洲研究院, 北京 | 2024-2025, 现场办公, 全职 |
| • 研究项目: SONiC DASH 智能交换机 (SONiC DASH SmartSwitch) | |
| • 研究实习生, 微软亚洲研究院, 上海 | 2021-2022, 远程 & 现场办公, 全职 |
| • 研究项目: 可靠性驱动 | |

论文发表

- Shaofeng Wu, Zhixiong Niu, Riff Jiang, Lawrence Lee, Junhua Zhai, Ze Gan, Vasundhara Volam, Prabhat Aravind, Prince Sunny, Prince George, Qi Luo, Evan Langlais, Soumya Tiwari, Venkat Satish Katta, Weixi Chen, Rishiraj Hazarika, Sachin Jain, Deven Jagasia, Michal Zygmunt, Avijit Gupta, Neeraj Motwani, Pranjal Shrivastava, Qiang Su, Anil Reddy Pannala, Kristina Moore, James Grantham, Anupam Pandey, Xin Liu, Guohan Lu, Gerald De Grace, Rishabh Tewari, Lihua Yuan, Erica Lan, Deepak Bansal, Dave Maltz, Yongqiang Xiong, Hong Xu. Offloading Cloud Network Services at Production Scale with SONiC DASH SmartSwitch, 2025. In *Proc. USENIX NSDI*, 2026. (Conference)
- Shaofeng Wu[#], Qiang Su[#], Zhixiong Niu, Hong Xu. Performance Prediction of On-NIC Network Functions with Multi-Resource Contention and Traffic Awareness. In *Proc. ACM ASPLOS*, 2025. (Conference)
- Qiang Su, Shaofeng Wu, Zhixiong Niu, Haodong Chen, Riff Jiang, Lizhao You, Qiao Xiang, Hong Xu, Yongqiang Xiong. NetSophon: Enabling Runtime Copilot for Programmable Dataplane for Cloud Operators. In *Proc. LLM-NET*, 2025. (Workshop)
- Qiang Su, Shaofeng Wu, Zhixiong Niu, Ran Shu, Peng Cheng, Yongqiang Xiong, Chun Jason Xue, Zaoxing Liu, and Hong Xu. Meili: Enabling SmartNIC as a service in the cloud. *arXiv preprint arXiv:2312.11871*, 2024. (Preprint)
- Qiang Su, Shaofeng Wu, Zhixiong Niu, Ran Shu, Peng Cheng, Yongqiang Xiong, Chun Jason Xue, Zaoxing Liu, Hong Xu. Meili: Towards SmartNIC as a Service. In *Proc. ACM SIGCOMM Demos and Posters*, 2023. (Workshop)

开源贡献

- SONiC DASH: [DASH Flow testing PRs](#)
- SAI: [DASH-SAI Flow API PRs](#)

技能

- 语言: 中文 (母语), 英语 (流利)
- 编程: C, Python, P4
- 框架: DPDK, DOCA

获奖情况

- Student Travel Grant, ASPLOS 2025, 2025.4
- Provost's Strategic Allocation of Centrally-Funded RPg Places, 2022-2026
- 中国科学技术大学优秀本科毕业生, 2020.6
- 中国科学技术大学优秀本科毕业论文, 2020.6
- 中国科学技术大学优秀本科生奖学金 (4%) , 2017, 2018, 2019