

Rixin Liu

CONTACT INFORMATION	South China University of Technology Guangzhou Higher Education Mega Centre Panyu District, Guangzhou, 510006	Phone: +86 19956289958 rixin.liu.coder@gmail.com https://bugeater.space/
RESEARCH INTERESTS	I aim to enhance the security, reliability, and performance of current systems (Network System, ML System) through software modification (eBPF, framework update) or by leveraging emerging hardware (programmable switch, DPU).	
EDUCATION	South China University of Technology - Project 985 B.S. Computer Science and Technology (11/164)	Sep. 2021 – Jun. 2025 GPA: 3.85/4.00
PUBLICATIONS	Themis: Efficiently Mitigating Congestion-Induced Fairness Disparities in Long-Haul RDMA Networks Rixin Liu , Menghao Zhang, Zihan Niu, Zili Meng, Xiaohe Hu SOSP' 24 Poster	
PROFESSIONAL EXPERIENCE	Beihang University Research Assistant (Mentor: Menghao Zhang) <ul style="list-style-type: none">● Investigated several papers about providing RNIC performance isolation support in multi-tenant RDMA virtualization schemes.● Developed solution <i>THEMIS</i> to efficiently deal with Congestion-Induced Fairness Disparities in Long-Haul RDMA Networks. <i>THEMIS</i> is a fairness maintenance patch with minimum modifications to existing DCs, via preemptive notification points and reaction points at external switch which connected datacenter and WAN. MIT-6.828 Graduate Operating System Coursework	Jun. 2024 - Now Jan. 2024 – Mar. 2024
AWARDS& HONOR	Huawei Scholarship (1/91) Awarding Institution: Huawei Technologies Co., Ltd. Excellence Award National Compiler System Design Contest Second-Class Scholarship (7/87) Awarding Institution: South China University of Technology National Second Prize National Mathematical Modeling Contest	Date: Dec. 2023 Date: Aug. 2023 Date: Dec. 2022 Date: May. 2022