

Gan, Yuhang

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EDUCATION	University of California, Santa Cruz, CA Sep 2021 – Now <ul style="list-style-type: none">Ph.D. in Computer Science and Engineering (GPA: 3.97/4.0)Conducting emerging network system research advised by Prof. Chen Qian Nanjing University, Nanjing, China Sep 2017 – Jun 2021 <ul style="list-style-type: none">B.S. in Computer Science and Technology (GPA:3.52/4.0)
SELECTED PUBLICATION	<ol style="list-style-type: none">Gan, Y, Zhang, X, Zhou, R., Liu, Y & Qian C. A Routing Framework for. Quantum Entanglements with Heterogeneous Duration in IEEE International Conference on Quantum Computing and Engineering (QCE '23)Zhou, R., Gan, Y. & Liu Y. Towards Flow Scheduling in A Quantum Data Center in ACM SIGCOMM Workshop on Quantum Networks and Distributed Quantum Computing (QuNet 2023) (SIGCOMM QuNet '23)Zhou, R., Lai, X., Gan, Y., Obraczka, K., Du, S & Qian, C. Simulation of Atom-Atom Entanglement with Atomic Ensembles and Quantum Optic in IEEE International Conference on Quantum Computing and Engineering (QCE '23)
TECHNICAL SKILLS	Programming Language: C/C++, Python, Java/Kotlin, P4, Matlab; Background Knowledge: Operating System, TCP/IP Networking, KV Storage, 5G Edge Datacenter, Quantum Networks System, Machine Learning System, Streaming Processing; DevOps: Git, Docker, Kubernetes, AWS, OCI, DPDK, Thrift;
SELECTED PROJECTS	Mobile Phones Based Heart Rate Detection Tool Aug 2020 – Jun 2021 <ul style="list-style-type: none">Built a mobile phones based low-cost & non-intrusive heartbeats detecting application tool using Python & Matlab, provide user's heartbeat signals to do potential heart disease assessment.The tool's signal detection accuracy is ~78% and responding time is less than 200ms. Entanglement Resource Management Framework in Quantum Networks Sep 2021 – Apr 2023 <ul style="list-style-type: none">Designed a resource management framework for quantum networks and implemented a simulator of this system using Java/Kotlin.The quantum network performance(throughputs) improved by 17%-39% according to the simulation results. Simulated 3D Humanoid Robots Gesture Optimization Jun 2019 – Sep 2020 <ul style="list-style-type: none">Optimized the "running" functions of robots using the CMA-ES algorithm and implemented it using C++. The walking speed of robots increased by 12%.Won the Second Prize of 2020 Robot World Cup China Competition, 3D Category.
ADDITIONAL INFORMATION	Awards: The People's Scholarship at Nanjing University (2019) Regents Fellowship & Department Fellowship at UCSC (2021) Interests: Clarinet: I learned clarinet since eight years old and served as the second-chair clarinet in the NJU's symphony orchestra for one year.