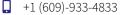
Ming LYU (吕铭)

PhD candidate, Electrical Engineering, Princeton University



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Applied Physics, Optics, Photonics, Semiconductors, Computer Science



I am a PhD student doing research on Quantum Cascade Laser, with physics background and some experience of Quantum Information, Quantum Computing and Quantum Optics. I am interested in Computer Science and Technology and familiar with high-tech development.



EDUCATION

Princeton University

09/2016 - expected 2021

PhD in Electrical Engineering

➤ Advisor : Dr. Claire Gmachl

Quantum Cascade Laser and GaAs/AlGaAs Photonic Devices

Tsinghua University 08/2012 - 07/2016

B.S. in Physics, Minor in Computer Science

- > Thesis: "Long Coherence Time Quantum Memory on Ion Trap System with Dynamical Decoupling" (Thesis Advisor: Dr. Kihwan Kim)
- Graduate with hornor ("Ye Qisun" Award, Outstanding Graduate in Beijing)



PUBLICATION

"Design and Optimization of 14-20 µm Wacelength GaAs/AlGaAs Quantum Cascade Lasers", 4th International Workshop on Infrared Technologies (2017), M. Lyu, C. Gmachl

"Single-Qubit Quantum Memory Exceeding Ten-minute Coherence Time", Nature Photonics 11, 646-650 (2017), Y. Wang, M. Um, J. Zhang, S. An, M. Lyu, J.-N. Zhang, L.-M. Duan, D. Yum, K. Kim

"Non-Markovian Dynamics of Open Quantum Systems without Rotating Wave Approximation", Arxiv: 1047.5359 (2014), M. Tang*, Y. Wu*, M. Lyu*, J. Tang, Z. Guo, T. Chen, X.-B. Wang (*equal contribution)



Social Services and Activities

Vise-president of Association of Chinese Students and Scholars at Princeton University (ACSSPU) 03/2017 - PRESENT President of Student Association for Science and Technology, Physics Department, Tsinghua University 06/2015 - 07/2016 Founder and Team Leader of the Debate Team in Physics Department, Tsinghua University 09/2013 - 05/2016 Vice-president of Student Union, Physics Department, Tsinghua University 09/2014 - 02/2015 Chair of Student Life and Right in Student Union, Physics Department, Tsinghua University 09/2013 - 09/2014 Zhihu.com (Chinese Quora) Oustanding Answerer on Physics and Quantum Physics, with 12.8k followers



PROFESIONAL EXPERIENCE

University of Waterloo

07/2015 - 09/2015

Research Assistant, THE INSTITUTE FOR QUANTUM COMPUTING (IQC)

- Advisor: Dr. Raymond Laflamme, Dr. Guanru Feng
- Electron Spin Resonance implementation of Quantum Computing and Simulation

Princeton University

2017 Fall

Teaching Assistant, School of Engineering and Applied Science

- EGR 151: Foundations of Engineering: Mechanics, Energy, and Waves
 - > General physics for engineering freshmen
 - > Lab sessions for physics and creative thinking

2018 Fall

ELE 308: Electronic and Photonic Devices

Fabrication of Si-based devices like MOSFET, CMOS, PN junction, solar cells, etc.



Programing

Python, C, C++, Qt, OpenMP, MATLAB, Mathematica, Bash, Git, ŁTFX, Markdown

Experiment

Cleanroom Fabrication, Nano-structure Imaging, Infrared and Laser Optics, Low Temperature Operation

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