

ZHENGHAO YIN

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🌐 <https://fibomat.github.io/blog>

🔗 fibomat

RESEARCH

Broadband frequency entangled photon generation using silicon nitride ring cavities
with Prof. Shigeki Takeuchi

📅 2017/10 – Present 📍 Kyoto University, Japan

We are collaborating with Yokoyama Lab at Kyushu Univ., and focusing on realization of on-chip high-intensity broadband entangled photon sources based on SiNx and other material platforms.

- study of phase matching condition for entangled photon source
- optical device nano-fabrication, especially high quality factor micro-ring resonators
- realization of long-time stable frequency-correlated photon pairs broadband

Integrated Quantum Photonics

with Prof. Xiaosong Ma

📅 2015/09 – 2017/06 📍 Nanjing University, China

My initial research interest in Malab was QKD and Bell states generation and finally turned into the integration of quantum optical devices.

- nano-fabrication based on commercial SOI/SiNOI wafers
- demonstration and automation of the integration photonics test system

EDUCATION

M.Eng. in electronics

Department of Electronic Science and Engineering,
Graduate School of Engineering, Kyoto University

📅 2017/10 – 2020/03

B.S. in Physics

Department of Physics, School of Physics, Nanjing University

📅 2013/09 – 2017/06

SKILLS



Experimental

Nanofabrication

FDTD/FEM simulation

NI LabVIEW

Metalworking



Programming

Python

C/C++



Amateur

Web Dev

Linux/Unix

AWARDS



Second Prize

among the participating instruments of National Seminar for Demonstrative Physics

LANGUAGES

English
Japanese
German



CONFERENCES AND PUBLICATION

REFEREES

Shigeki TAKEUCHI

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✉ Vice Dean, Graduate School of Engineering
Professor, Department of Electronic Science and Engineering
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