

# 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

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Design and fabrication of a silicon nitride ring resonator for on-chip broadband entangled photon sources (oral)

**The 80th JSAP Autumn Meeting 2019, JSAP-OSA Joint Symposia**

📅 2019/09

📍 Sapporo, Japan

Research of CVD methods for impacts on dispersion in a SiNx ring resonator (oral & poster)

**The 38th Electronic Materials Symposium**

📅 2019/10

📍 Nara, Japan

On-chip broadband entangled photon sources using HICDG and SiN waveguide devices (poster)

**EU-USA-Japan International Symposium on Quantum Technology**

📅 2019/12

📍 Kyoto, Japan

## REFEREES

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**Shigeki TAKEUCHI**

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

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