

Satoshi Yoshida

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Work

Assistant Professor

Apr. 2026 - Present

Department of Physics, Graduate School of Science, The University of Tokyo

JSPS Research Fellow

Apr. 2023 - Mar. 2026

Department of Physics, Graduate School of Science, The University of Tokyo

Intern (Student Researcher)

Mar. 2024 - May 2024

Google Quantum AI, Google Japan G.K.

Education

PhD in Physics

Apr. 2023 - Mar. 2026

Department of Physics, Graduate School of Science, The University of Tokyo

Thesis: Group theoretical analysis of higher-order quantum algorithms

Supervisor: Prof. Mio Murao

MSc in Physics

Apr. 2021 - Mar. 2023

Department of Physics, Graduate School of Science, The University of Tokyo

Thesis: Higher-order quantum algorithms for universally inverting unitary and isometry operations

Supervisor: Prof. Mio Murao

BSc in Physics

Apr. 2017 - Mar. 2021

Department of Physics, Faculty of Science, The University of Tokyo

Awards

The School of Science Encouragement Award (Doctoral program)

Mar. 2026

Graduate School of Science, The University of Tokyo

Student Poster Award (Gold Prize)

Aug. 2024

The 24th Asian Quantum Information Science Conference (AQIS24)

The School of Science Encouragement Award (Master program)

Mar. 2023

Graduate School of Science, The University of Tokyo

Poster Award

Nov. 2022

The 2nd International Symposium on Trans-Scale Quantum Science

Presentation Award for students

Feb. 2022

The 45th Quantum Information Technology Symposium (QIT45)

Best Poster Award

Aug. 2021

The 66th Condensed Matter Physics Summer School

The School of Science Encouragement Award (Undergraduate program)

Mar. 2021

Faculty of Science, The University of Tokyo

Study and Visit Abroad Program (SVAP)

Mar. 2020

Faculty of Science, The University of Tokyo

Gold medal

Jul. 2016

The 47th International Physics Olympiad (IPhO 2016)

Silver medal

Jul. 2015

The 46th International Physics Olympiad (IPhO 2015)

Fellowships

JSPS Research Fellowships for Young Scientists (DC1) Japan Society for the Promotion of Science	<i>Apr. 2023 - Mar. 2026</i>
Research Assistant (DAIKIN Fellowship), The University of Tokyo The University of Tokyo	<i>Feb. 2022 - Mar. 2026</i>
Research Assistant (Q-Leap Human resources development) The University of Tokyo	<i>Apr. 2021 - Mar. 2026</i>
Research Assistant (FoPM) The University of Tokyo	<i>Oct. 2021 - Jan. 2022</i>

Grants

JSPS KAKENHI Grant Number 23KJ0734 4.2 M JPY for three years	<i>Apr. 2023 - Mar. 2026</i>
DAIKIN Fellowship 1.5 M JPY for 14 months	<i>Feb. 2022 - Mar. 2026</i>

Teaching

Lecture (The University of Tokyo)

- **Theoretical Physics Exercise I** *AY2026*

Teaching Assistant (The University of Tokyo)

- **Exercise in Physics IV** *AY2021*
- **First-Year Seminar for Natural Sciences Students** *AY2021*

Technical Competitions

Horizon Quantum Computing Hackathon (Invited)	<i>2023</i>
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Outreach

Programming of time using quantum computers Seminar for alumni of Osaka Seiko Gakuin High School	<i>Jun. 2024</i>
Physics Lab. 2019 and 2020 Present the basics of the quantum information at the school festival of the University of Tokyo.	<i>May 2019, May 2020</i>
The Committee of Japan Physics Olympiad Work as a tutor for candidate high school students for the International Physics Olympiad.	<i>Sep. 2017 - Aug. 2020</i>

Reviewing activities

Journals: Communications Physics, Optica, Physical Review A, Physical Review Letters, Physical Review Research, Quantum

Conferences: AQIS, Beyond IID, SODA, STOC, TQC, QCTiP, QEC, QIP