

Curriculum Vitae

Takumu Yamanaka

Personal data

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| Family name: | Yamanaka | Given name: | Takumu |
| Date of birth: | 13 March 1999 | Age: | 27 |
| Nationality: | Japanese | Place of birth: | Mie, Japan |
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Education

- April 2024 – March 2027 (Expected) Ph.D. (Science)
Department of Physics, The University of Osaka, Osaka, Japan
Supervisor: Prof. Ryosuke Sato
- April 2022 – March 2024 Master of Science
Department of Physics, The University of Osaka, Osaka, Japan
Supervisor: Prof. Ryosuke Sato
- April 2018 – March 2022 Bachelor of Science
Department of Physics, The University of Osaka, Osaka, Japan

Seminars and Talks

1. Invited seminar at Yokohama National University, Kanagawa, Japan,
24 April 2026 (Scheduled)
2. Seminar at Tokyo University of Science, Tokyo, Japan, 27 February 2026
3. Seminar at High Energy Accelerator Research Organization (KEK), Ibaraki, Japan,
25 February 2026
4. Seminar at Tsung-Dao Lee Institute, Shanghai Jiao Tong University, China,
14 November 2025
5. Summer Institute 2025, Yeosu, South Korea, 21 August 2025

6. KEK-PH 2025winter, KEK, Japan, 19 February 2025
7. The 1st UGRP Workshop for Young Researchers, Toyama University, Japan, 6 March 2025
8. The 40th Regular Meeting of the New Higgs Working Group, The University of Osaka, Japan, 25 January 2025
9. 2024 Annual Meeting of JPS, Hokkaido University, Japan, 16 September 2024
10. YITP Workshop 2024 Progress of Particle Physics, Yukawa Institute for Theoretical Physics, Japan, 19 August 2024
11. 2024 Spring Meeting of JPS, Online, 21 March 2024
12. The 37th Regular Meeting of the New Higgs Working Group, The University of Osaka, Japan, 20 January 2024

Poster Presentation

1. “Forbidden Dark Matter with Sommerfeld Enhancement”, Iwate Collider School 2026, Iwate University, Japan, 3 March 2026
2. “Composite Dark Matter with Forbidden Annihilation”, Higgs as a Probe of New Physics 2025, The University of Osaka, Japan, 10 June 2025
3. “Sommerfeld Effect in Composite Dark Matter”, Kashiwa-no-ha Dark Matter and Cosmology Symposium, Kavli IPMU, Japan, 28 October – 1 November 2024
4. “Sommerfeld Enhancement on Composite Dark Matter”, COSMO’24, Kyoto University, Japan, 21–25 October 2024
5. “Composite Dark Matter with Forbidden Annihilation”, Invisibles24 School, University of Bologna, Italy, 24–28 June 2024

Teaching experience

1. Teaching Fellow, Classical Mechanics, The University of Osaka, October 2024 – March 2025
 - Held office hours to assist bachelor students with problem sets and exam preparation.

2. Teaching Assistant, The University of Osaka Main Library,
July 2022 – July 2026 (Expected)
 - Held office hours to assist bachelor students with problem sets and exam preparation.
 - Gave seminars on basics of quantum mechanics, including one-dimensional systems and Dirac notation.

Award

1. The 1st UGRP Workshop for Young Researchers Presentation Award, 6 March 2025