

# Yuta Ono

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## Education

Department of Information Physics and Computing, Graduate School of Information Science and Technology, <b>The University of Tokyo</b> , Japan	Apr 2023 – Mar 2026 (Expected)
<ul style="list-style-type: none"> <li>• Master of Information Science and Technology</li> <li>• GPA: 4.0/4.0</li> </ul>	
Department of Information Technology and Electrical Engineering, <b>ETH Zurich</b> , Switzerland	Sep 2023 – Aug 2024
<ul style="list-style-type: none"> <li>• Exchange Student</li> <li>• GPA: 5.5/6.0</li> </ul>	
Department of Mathematical Engineering and Information Physics, <b>The University of Tokyo</b> , Japan	Apr 2019 – Mar 2023
<ul style="list-style-type: none"> <li>• Bachelor of Engineering</li> <li>• GPA: 3.7/4.0</li> </ul>	

## International Conferences

<b>Exploring the possibility of TypiClust for low-budget Federated Active Learning</b> <u>Yuta Ono</u> , Hiroshi Nakamura, Hideki Takase The 49th IEEE International Conference on Computers, Software, and Applications (COMPSAC)	Jul 2025
<b>SUPClust: Active Learning at the Boundaries</b> <u>Yuta Ono</u> , Till Aczel, Benjamin Estermann, Roger Wattenhofer 5th Workshop on practical ML for limited/low resource settings (PML4LRS@ICLR)	May 2024

## Domestic Conferences (in Japanese)

<b>Consideration for Batch Active Learning on Graphs via Uncertainty Propagation</b> <u>Yuta Ono</u> , Hiroshi Nakamura, Hideki Takase The 28th Information-Based Induction Sciences Workshop (IBIS2025)	Nov 2025
<b>Preliminary Study towards Split Learning with Early Exits</b> Yuki Oda, <u>Yuta Ono</u> , Hiroshi Nakamura, Hideki Takase Summer United Workshops on Parallel, Distributed and Cooperative Processing (SWoPP)	Aug 2025
<b>Evaluation of TypiClust for Federated Active Learning in Low-Budget Regimes</b> <u>Yuta Ono</u> , Hiroshi Nakamura, Hideki Takase Annual Conference of the Japanese Society for Artificial Intelligence (JSAI)	May 2025
<b>Training Deep Neural Networks for Fast Data Assimilation</b> <u>Yuta Ono</u> , Yuta Tarumi, Keisuke Fukuda, Shin-ichi Maeda Information-Based Induction Sciences and Machine Learning (IBISML)	Dec 2024
<b>Trapping of Airborne Objects by Using Camera Tracking in Acoustic Levitation</b> <u>Yuta Ono</u> , Shun Suzuki, Yasutoshi Makino, Nozomi Nishiumi, Hiroyuki Shinoda The Robotics and Mechatronics Conference (ROBOMECH)	Jun 2023

## Grants

Yuta Ono, <b>Doctoral Course Research Fellowships (DC1)</b> , Japan Society for the Promotion of Science (JSPS)	Apr 2026 – Mar 2029
<ul style="list-style-type: none"><li>• JPY 4,500,000 (at most)</li><li>• Available only in Japan</li></ul>	
Yuta Ono, <b>AIP Challenge Program</b> , Japan Science and Technology Agency (JST)	Jun 2025 – Mar 2026
<ul style="list-style-type: none"><li>• JPY 1,000,000</li><li>• This program aims to support the independence of young researchers</li></ul>	

## Awards

<b>Certificate of Merit for ROBOMECH Outstanding Research Activity</b>	May 2024
<ul style="list-style-type: none"><li>• Awarded to authors who have received high evaluations for their research results (<math>\sim 0.4\%</math>; 6/1467)</li></ul>	
<b>Fellow Award for Outstanding Young Engineers</b>	May 2024
<ul style="list-style-type: none"><li>• Awarded to young researchers whose work is useful and novel (<math>\sim 2.8\%</math>; 25/887)</li></ul>	

## Scholarships

<b>Doctoral Course Research Fellowships (DC1)</b> , Japan Society for the Promotion of Science (JSPS)	Apr 2026 – Mar 2029
<ul style="list-style-type: none"><li>• JPY 200,000 / month</li><li>• Available only in Japan</li></ul>	
<b>UTokyo-TOYOTA Study Abroad Scholarship for the Study and Research in the Field of AI</b>	Sep 2023 – Aug 2024
<ul style="list-style-type: none"><li>• Awarded to only five students in UTokyo</li><li>• JPY 220,000 / month</li></ul>	
<b>Thirty-seventh term scholarship student, INOAC International Education and Scholarship Foundation</b>	Sep 2023 – Aug 2024
<ul style="list-style-type: none"><li>• JPY 100,000 / month</li></ul>	

## Work Experience

<b>Part-time Researcher</b> , Preferred Networks inc., Tokyo, Japan	Oct 2024 – Present
<ul style="list-style-type: none"><li>• Developing a fast data assimilation method that overcomes non-linearity, non-Gaussianity, and high dimensionality, based on variational Bayes and empirical Bayes</li><li>• Skills: Python (PyTorch), Bayesian Statistics, Optimization</li></ul>	
<b>Research Intern</b> , Preferred Networks inc., Tokyo, Japan	Aug 2024 – Sep 2024
<ul style="list-style-type: none"><li>• Fast data assimilation by deep neural networks</li></ul>	
<b>Teaching Assistant</b> , ETH Zurich, Switzerland	Feb 2024 – Apr 2024
<ul style="list-style-type: none"><li>• “Hands-on Deep Learning (FS 2024)”</li><li>• Skills: Python (PyTorch, PyG)</li></ul>	
<b>Part-time Engineer</b> , Nagase Brothers Inc., Tokyo, Japan	Aug 2021 – Aug 2023
<ul style="list-style-type: none"><li>• Web Backend Engineer</li><li>• Designed and built web APIs for internal systems</li></ul>	

## **Skills**

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### **Machine Learning / Deep Learning**

- Research interests: Active Learning, Federated Learning, Uncertainty Quantification, Bayesian Optimization, GNN
- 5+ years of experience in Python and PyTorch
- Familiar with Docker/Docker Compose, Singularity/Apptainer, Git/GitHub/GitLab, and SLURM (as user: 2+ year experience; as admin: introduced SLURM system for lab and currently managing ~ 10 nodes)

### **Web Development**

- Built web backend in Nagase Brothers Inc.
- Qualified as a database specialist by Information-technology Promotion Agency, Japan (Dec 2022)
- Python, Golang, Ansible, gRPC, REST API, Protocol Buffers, OpenAPI Specification, MySQL, TypeScript, Docker/Docker Compose, Ansible

### **Languages**

- Japanese (Native)
- English (Fluent; TOEFL iBT 102, CEFR C1)