

# Yuta Ono

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## Education

Department of Information Physics and Computing, Graduate School of Information Science and Technology, **The University of Tokyo**, Japan Apr 2023 – Mar 2026 (Expected)

- Master of Information Science and Technology
- GPA: 4.0/4.0

Department of Information Technology and Electrical Engineering, **ETH Zurich**, Switzerland Sep 2023 – Aug 2024

- Exchange Student
- GPA: 5.5/6.0

Department of Mathematical Engineering and Information Physics, Faculty of Engineering, **The University of Tokyo**, Japan Apr 2019 – Mar 2023

- Bachelor of Engineering
- GPA: 3.7/4.0

## International Conferences

**Hetero-SplitEE: Split Learning of Neural Networks with Early Exits for Heterogeneous IoT Devices** Dec 2025

Yuki Oda, Yuta Ono, Hiroshi Nakamura, Hideki Takase

The 18th IEEE International Symposium on Embedded Multicore/Many-core Systems-on-Chip (MCSoC)

**Exploring the possibility of TypiClust for low-budget Federated Active Learning** Jul 2025

Yuta Ono, Hiroshi Nakamura, Hideki Takase

The 49th IEEE International Conference on Computers, Software, and Applications (COMPSAC)

**SUPClust: Active Learning at the Boundaries** May 2024

Yuta Ono, Till Aczel, Benjamin Estermann, Roger Wattenhofer

5th Workshop on practical ML for limited/low resource settings (PML4LRS@ICLR)

## Domestic Conferences (in Japanese)

**Consideration for Batch Active Learning on Graphs via Uncertainty Propagation** Nov 2025

Yuta Ono, Hiroshi Nakamura, Hideki Takase

The 28th Information-Based Induction Sciences Workshop (IBIS2025)

**Preliminary Study towards Split Learning with Early Exits** Aug 2025

Yuki Oda, Yuta Ono, Hiroshi Nakamura, Hideki Takase

Summer United Workshops on Parallel, Distributed and Cooperative Processing (SWoPP)

**Evaluation of TypiClust for Federated Active Learning in Low-Budget Regimes** May 2025

Yuta Ono, Hiroshi Nakamura, Hideki Takase

Annual Conference of the Japanese Society for Artificial Intelligence (JSAI)

**Training Deep Neural Networks for Fast Data Assimilation** Dec 2024

Yuta Ono, Yuta Tarumi, Keisuke Fukuda, Shin-ichi Maeda

Information-Based Induction Sciences and Machine Learning (IBISML)

**Trapping of Airborne Objects by Using Camera Tracking in Acoustic Levitation** Jun 2023

Yuta Ono, Shun Suzuki, Yasutoshi Makino, Nozomi Nishiumi, Hiroyuki Shinoda

The Robotics and Mechatronics Conference (ROBOMECH)

## Scholarships

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<b>Yoshida Scholarship</b> , Yoshida Scholarship Foundation	Oct 2029 – Sep 2030
<ul style="list-style-type: none"><li>For living expenses: USD 30,000 / year</li><li>For tuition fees or research expenses: JPY 2,500,000</li><li>Awarded to only 5 students nationwide annually based on academic excellence and leadership potential</li></ul>	
<b>Funai Overseas Scholarship</b> , Funai Foundation for Information Technology	Sep 2026 – Aug 2029
<ul style="list-style-type: none"><li>For living expenses: USD 36,000 / year</li><li>For tuition fees: USD 14,000 / year</li><li>Full coverage for medical insurance</li><li>Selected based on outstanding academic performance and research potential</li></ul>	
<b>KDDI Overseas Scholarship</b> , KDDI Foundation	Sep 2026 – Aug 2028
<ul style="list-style-type: none"><li>For living expenses: JPY 3,000,000 ≈ USD 19,000 / year</li><li>Selected based on outstanding academic performance and research potential</li></ul>	
<b>Doctoral Course Research Fellowships (DC1)</b> , Japan Society for the Promotion of Science	Apr 2026 – Mar 2029
<ul style="list-style-type: none"><li>Research grant: JPY 4,500,000 (at most)</li><li>Stipend: JPY 200,000 / month</li><li>Available only in Japan</li><li>Awarded to about top 10% of incoming doctoral students in Japan</li></ul>	
<b>UTokyo-TOYOTA Study Abroad Scholarship for the Study and Research in the Field of AI</b> , The University of Tokyo	Sep 2023 – Aug 2024
<ul style="list-style-type: none"><li>Awarded to only 5 students in UTokyo annually</li><li>JPY 220,000 / month</li></ul>	
<b>Thirty-seventh term scholarship student</b> , INOAC International Education and Scholarship Foundation	Sep 2023 – Aug 2024
<ul style="list-style-type: none"><li>Merit-based scholarship awarded for academic excellence</li><li>JPY 100,000 / month</li><li>Declined in favor of the TOYOTA Scholarship due to concurrent funding restrictions</li></ul>	

## Grants

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<b>Yuta Ono, AIP Challenge Program</b> , Japan Science and Technology Agency	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

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<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 (~ 0.4%; 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 (~ 2.8%; 25/887)</li></ul>	

## Work Experience

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<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,</li></ul>	

and high dimensionality, based on variational Bayes and empirical Bayes

- Skills: Python (PyTorch), Bayesian Statistics, Optimization

**Research Intern**, Preferred Networks inc., Tokyo, Japan

Aug 2024 – Sep 2024

- Summar internship on development of fast data assimilation methods using deep neural networks

**Teaching Assistant**, ETH Zurich, Switzerland

Feb 2024 – Apr 2024

- “Hands-on Deep Learning (FS 2024)”
- Skills: Python (PyTorch, PyG)

**Part-time Engineer**, Nagase Brothers Inc., Tokyo, Japan

Aug 2021 – Aug 2023

- Web Backend Engineer
- Designed and built web APIs to use AI-based OCR and proofreading for internal systems

## Skills

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### Machine Learning / Deep Learning

- Research interests: Active Learning, Uncertainty Quantification, Bayesian Optimization, GNN, Federated Learning
- 6+ years of experience in Python (Matplotlib, NumPy, PyTorch)
- Familiar with Docker/Docker Compose, Singularity/Apttainer, 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, gRPC, REST API, Protocol Buffers, OpenAPI Specification, MySQL, ERD, TypeScript, Docker/Docker Compose, Ansible

### Languages

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