## Naofumi Osawa

Age: 27 (Born 1998)
Email: oosawanaofumi@gmail.com
GitHub: https://github.com/naofumi1014
Website: https://naofumi1014.github.io

## Professional Summary & Experience

### Research Engineer, Dentsu Soken Inc., AI Transformation Center (AITC) *Apr. 2024 – Present*

- Engage in applied research and technical analyses related to AI agents, large language models, and multimodal AI technologies.
- Author technical columns and research reports focused on personalization, multimodal AI agents, and advancements in voice AI.
- Facilitate the integration of academic AI research with industrial applications and business solutions.

### Broadcast Systems Engineer, Aomori Broadcasting Corporation *Apr. 2022 – Mar. 2024*

- Developed and maintained broadcast systems for television production and live sports programming.
- Designed and deployed a sports coder system leveraging OBS to enhance operational efficiency.
- Collaborated with production teams to optimize workflows and improve system reliability.

### Research Intern, NEC Corporation, Data Science Research Institute *Aug. 2021 – Sep. 2021*

- Conducted research on data integration and entity matching utilizing machine learning methodologies.
- Contributed to peer-reviewed publications presented at international conferences.

## Engineering Intern, Fuji Electric Co., Ltd. *Aug. 2019 – Sep. 2019*

- Assisted in software and systems development within an industrial engineering context.
- Acquired practical experience in applied engineering and collaborative development environments.

## Education

M.Sc. in Information Science, University of Tsukuba, Japan (2024)
B.Sc. in Library and Information Science, University of Tsukuba, Japan (2019)
Associate Degree in Electrical and Information Engineering, Hachinohe National College of Technology (2015)

## Publications & Research

- **Osawa, N.** (2026). *Preference Descriptions for Dynamic Personalization of Large Language Models*.
  AAAI 2026 Workshop on Personalization for Foundation Models (PerFM).

- **Osawa, N., Ito, H., Fukushima, Y., Harada, T., Morishima, A.** (2021).
  *BUBBLE: A Quality-Aware Human-in-the-loop Entity Matching Framework*.
  Proceedings of the IEEE International Conference on Big Data (BigData 2021), pp.3557–3565.

- **Osawa, N., Ito, H., Harada, T., Fukushima, Y., Morishima, A.** (2021).
  *A Quality-Aware Human-in-the-loop Approach for Bibliographic Record Integration*.
  ICADL / AP-iConference 2021 Graduate Student Sessions.

- **Osawa, N., Harada, T., Fukushima, Y., Morishima, A.** (2021).
  *An Attempt to Integration of Bibliographic Data Using Machine Learning*.
  iConference 2021 Student Symposium.

## Professional Experience

Research Engineer, DENTSUSOKEN.Inc. AI Transformation Center (2024–Present)
Broadcast Systems Engineer, Aomori Broadcasting Corporation (2022–2024)
Research Intern, NEC Data Science Research Institute (2021)
Engineering Intern, Fuji Electric Co., Ltd.

## Skills

Programming: Python, SQL, JavaScript
ML/AI: PyTorch, TensorFlow, scikit-learn, langfuse, langgraph
Cloud: Microsoft Azure
Tools: Git, Docker, Linux

## Certifications

Microsoft Azure Fundamentals
Microsoft Azure AI Fundamentals
JDLA Deep Learning for GENERAL
Fundamental Information Technology Engineer (Japan)

## Others

Survey on LLM as a Judge
(Dentsu Soken AITC Column)
https://aitc.dentsusoken.com/column/llm-as-a-judge-survey/

**Introduction to Personalization Methods for AI Agents**
(Dentsu Soken AITC Column)
https://aitc.dentsusoken.com/column/personaagent/

**Participation Report: The 39th Annual Conference of the Japanese Society for Artificial Intelligence (JSAI 2025)**
(Dentsu Soken AITC Column)
https://aitc.dentsusoken.com/column/jsai2025/

**Emerging Trends in Video Content Utilization: A Technical Survey on Multimodal AI Agents**
(Dentsu Soken AITC Column)
https://aitc.dentsusoken.com/column/videorag/

**Enhancing Business Efficiency with Voice AI: Exploring the Potential and Applications of Azure AI Speech**
(Dentsu Soken AITC Column)
https://aitc.dentsusoken.com/column/azure-ai-speech/

**Development of a Sports Coder Using OBS**
Naofumi Osawa, Shuichi Suzuki, *Broadcast Engineering*, Vol. 76, No. 12, pp. 138–142, Dec. 2023.
https://cir.nii.ac.jp/crid/1520861338858178560