

# Ryuhei Miyazato

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## Summary

- Completed a Master's degree at UEC, Japan and currently working as a research intern at Ichikara Inc.
- My first-author papers have been accepted to workshops at ACL2026, AACL2025 and KDD2025
- Achieved 5th place in the KDD CUP 2025 Meta CRAG-MM Challenge

## Current Research

### Hallucination Detection in Vision Language Models through Internal Representations

- Detecting hallucinations with probing and ensemble learning on internal representations.

### Temporal Discourse Understanding in Language Models

- Investigating how models comprehend the temporal order of events in narratives, especially when the order of description differs from the actual timeline.

## Education

**The University of Electro-Communications** *Tokyo, Japan* April 2024 – March 2026

- *M.Eng. in Computer Science* - Design Thinking and Data Science Program

**The University of Electro-Communications**, *Tokyo, Japan* April 2020 – March. 2024

- *B.Eng. in Computer Science* specialty in Management Science and Engineering

## Publication

- **R. Miyazato**, S.Kitada, K. Harada, “[EnsemHalDet: Robust VLM Hallucination Detection via Ensemble of Internal State Detectors](#)”, ACL Student Research Workshop 2026, March 2026
- **R. Miyazato**, T. Wei, X. Wu, H. Wu, K. Harada, “[BookAsSumQA: An Evaluation Framework for Aspect-Based Book Summarization via Question Answering](#)”, IJCNLP-AACL 2025 Student Research Workshop, November 2025
- Y. Nakamizo, **R. Miyazato (co-first author)**, H. Tanabe, R. Yamakura, K. Hatanaka, “[Ensembling Multiple Hallucination Detectors Trained on VLLM Internal Representations](#)”, KDD Cup Workshop at KDD2026, August 2025
- **R. Miyazato**, T. Nishino, K. Harada, “[Book Recommendation System in University Libraries Considering Course Subjects and Users' Learning Situation](#)”, Information Processing Society of Japan Transactions on Mathematical Modeling and its Applications, 18 (1), 1-9, February 2025

## Conferences Presentation

- **R. Miyazato**, “Hallucination Detection in Large-Scale Vision-Language Models via Probing and Ensemble Learning”, The Association for Natural Language Processing (NLP2026), March 2026
- **R. Miyazato**, “Examining the Temporal Reasoning Ability of Language Models in Non-linear Narratives”, Young Research Association for NLP Studies (YANS2025), September 2025

- **R. Miyazato**, “Aspect-Based Novel Summarization with Relational Extraction Using Large Language Model”, Japanese Society for Artificial Intelligence (JSAI2025), May 2025
- **R. Miyazato**, “Book Recommendation System for University Libraries”, SIG Mathematical Modeling and Problem Solving: MPS, June 2024

## Technical Experience

**Research Intern at Ichikara Inc., Tokyo, Japan**

April 2025 – Present

- Data Synthesis and Evaluation for Japanese Large Language Models

**Research intern at DOCOMO Innovations Inc., California, U.S.A..**

August 2024 – November 2024

- Personalized Book Summarization with LLM
- Implementation of RAG for multiple domains documents within the company.

**Collaborative Research at UEC Library, Tokyo, Japan**

September 2023 – April 2025

- Book Recommendation System for University Libraries
- Independently implemented recommendation which is now used in UEC Library

## Awards

**Student Award 2026 at University of Electro-Communications**

March 2026

- Awarded to top ~5% of students based on outstanding achievements in research, extracurricular activities, and academic performance.

**2<sup>nd</sup> place at Ichikara-Try 2025 , Ideathon on Data Synthesis for**

September 2025

- Diversity-Aware Synthesis of Post-training Data for Japanese LLMs.

**5<sup>th</sup> place for Meta CRAG-MM Challenge at KDD Cup2025**

August 2025

- Mitigate hallucinations in MM-RAG by ensembling multiple detection models trained on VLM internal representations.