

# Ryuhei Miyazato

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## Summary

- M.Eng. student at the University of Electro-Communications, Japan, majoring in Data Science
- Achieved 5th place in the KDD CUP 2025 -Meta CRAG-MM Challenge
- Research intern at NTT DOCOMO R&D center in San Francisco, U.S.A., in the Summer of 2024

## Education

**The University of Electro-Communications** *Tokyo, Japan*

April 2024 – Present

- *M.Eng. in Computer Science* - Design Thinking and Data Science Program
- Expected graduation in Spring 2026

**The University of Electro-Communications** *Tokyo, Japan*

April 2020 – March. 2024

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

## Current Research

- **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.
- **Hallucination Detection in Vision–Language Models through Internal Representations**
  - Detecting hallucinations with probing and ensemble learning on internal representations.

## Publication

- **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 the 31st SIGKDD Conference on Knowledge Discovery and Data Mining, 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 (IPSJ TOM) 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

**Ichikara Inc.**, *Tokyo, Japan.*

April 2025 – Present

- **Engineering Intern**

- Data Synthesis and Evaluation for Japanese Large Language Models

**DOCOMO Innovations Inc.**, *California, United States.*

August 2024 – November 2024

- **Research intern in the AI & Data Analytics Group**

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

**Graduation Research for BCS**, *University of Electro-Communications*

September 2023 – April 2025

- **Collaborative Research**

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

## Awards

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

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

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

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

## Leadership Experience

**Representative of online community**

December 2020 – April 2021

- Founded an online community to increase interaction between university students across all of Japan during lockdown periods of the pandemic