

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 (JSAl2025), 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
<ul style="list-style-type: none"> • Engineering Intern <ul style="list-style-type: none"> ➤ Data Synthesis and Evaluation for Japanese Large Language Models 	
DOCOMO Innovations Inc., California, United States.	August 2024 – November 2024
<ul style="list-style-type: none"> • Research intern in the AI & Data Analytics Group <ul style="list-style-type: none"> ➤ 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

5th place for Meta CRAG-MM Challenge at KDD Cup2025

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

2nd 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
<ul style="list-style-type: none"> ➤ Founded an online community to increase interaction between university students across all of Japan during lockdown periods of the pandemic 	