RIKIYA TAKEHI

🌐 web page   ✉ rikiya.takehi@fuji.waseda.jp

📍 Tokyo, Japan   Github

SUMMARY

I am a third year B.A. student supervised by Prof. Tetsuya Sakai at Waseda University, Japan. Previously, I was a guest researcher at NIST Retrieval Team in the US for one year with Dr. Ian Soboroff and Dr. Ellen Voorhees, where I conducted research mainly on IR and evaluation. I also collaborate closely with Yuta Saito of Cornell Univ., working on counterfactual learning and recommendations. My research interest widely orbits around **recommendation**, **information retrieval**, and **machine learning**; particularly counterfactual learning, rankings, and evaluation in IR.

EDUCATION

4/2021 - Present	**Waseda University - Major in Computer Science** *Cumulative GPA: **3.87**, Major GPA: **3.97** (WES-scale)*	**Tokyo, Japan**
4/2018 - 3/2021	**Waseda University Honjo Senior High School**	**Saitama, Japan**

PUBLICATIONS

1. **Rikiya Takehi**, Kosuke Kawakami, Masahiro Asami, Yuta Saito. 2025. **General Framework for Off-Policy Learning with Partially-Observed Reward.** *In Proceedings of the International Conference on Learning Representations (**ICLR** '25).* (acceptance rate = 32%)
   OpenReview |

2. **Rikiya Takehi**, Ellen M. Voorhees, Tetsuya Sakai, and Ian Soboroff. 2024. **LLM-Assisted Relevance Assessments: When Should We Ask LLMs for Help?** *Preprint.*

3. **Rikiya Takehi**, Akihisa Watanabe, and Tetsuya Sakai. 2023. **Open-Domain Dialogue Quality Evaluation: Deriving Nugget-level Scores from Turn-level Scores** *In Proceedings of the Annual International ACM SIGIR Conference on Research and Development in Information Retrieval in the Asia Pacific Region (**SIGIR AP** '23).* (acceptance rate = 36%) Oral Presentation
   code | poster | slides | proceedings

EXPERIENCE

10/2023 – 9/2024	*Guest Researcher*, **NIST - National Institute of Standards and Technology** · Conducting research in the retrieval group with **Dr. Ian Soboroff & Dr. Ellen Voorhees**. · Working on **evaluation of generated text via nugget-based evaluation**. · Building a **dataset / TREC track** on product recommendation. · Conducted research on using **LLMs for building test collections.** (published on arXiv)	**Maryland, USA**
9/2024 – Present	*Research Intern*, **CyberAgent AI Lab.** · Conducting two research in **recommendation and optimization**.	**Tokyo, Japan**
9/2023 – Present remote	*Research Intern*, **Hakuhodo Tech. Inc.** · Tackling a research on **off-policy learning for partially observed rewards**. · Currently under review at ICLR 2025	**Tokyo, Japan**
7/2023 – Present remote	*Research Intern*, **Hanjukukaso Inc.** · Remotely collaborating with **Yuta Saito** (PhD student at Prof.Joachims Lab, Cornell Univ.) · Working on **fairness in ranking** and **off-policy learning** mainly tackling **RecSys problems**.	**Tokyo, Japan**
4/2023 – Present	*Student Researcher*, **Sakai Lab - Waseda Univ.** · Supervised by **Prof. Tetsuya Sakai** · Conducting research mainly on **evaluation of IR**. · Research on **evaluation of dialogue systems**. (published to SIGIR AP 2023)	**Tokyo, Japan**

CURRENT PROJECTS

- **Organizer of the Product Search and Recommendation Track**

  – Co-organizing with **ChengXiang Zhai** (Illinois), **Michael Ekstrand** (Drexel), **Surya Kallumadi** (Lowe's), **Alessandro Magnani** (Walmart), and **Daniel Campos** (Snowflake)

  – In addition to the current product search track, we aim to start a recommendation task. Using human annotations, we label complementary products and substitute products. We hope this dataset to be widely used in **item-to-item recommendation** instead of co-purchase/co-view data.

– Will be on a TREC Track in 2025. This will be the first track on recommendation on TREC.

TALKS

- **National Institute of Informatics** (Hosted by **Prof. Noriko Kando**) - *Using LLMs as Assistants for Building Test Collections (+Trends and Problems of Test Collections)*

- **University of Maryland College Park** (Hosted by **Prof. Douglas Oard**) - *Nugget-Based Evaluation and the Use of LLMs*

LANGUAGES

Japanese - native, **English** - fluent (TOEFL iBT: 110), **French** - proficient (CEFR B2)