

Koichi Tanaka

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RESEARCH INTERESTS

Off-Policy Evaluation and Learning; Contextual Bandits; Recommender Systems and Ranking; Counterfactual Learning

EDUCATION

Keio University, Japan Apr. 2025 – Present
Master's Student, Department of Electronics and Electrical Engineering

Keio University, Japan Apr. 2021 – Mar. 2025
Bachelor's Degree, Department of Electronics and Electrical Engineering

RESEARCH EXPERIENCE

Hanjuku-kaso, Co., Ltd. Tokyo, Japan
Research Intern May 2025 – Present

LY Corporation Tokyo, Japan
Research Intern Aug. 2023 – Present

CyberAgent AI Lab Tokyo, Japan
Research Intern Aug. 2023 – Aug. 2025

PUBLICATIONS

Peer-Reviewed Conference Papers

- Ren Kishimoto*, **Koichi Tanaka***, Haruka Kiyohara, Yusuke Narita, Nobuyuki Shimizu, Yasuo Yamamoto, Yuta Saito. “Efficient Offline Learning of Ranking Policies via Top-k Policy Decomposition.” *International ACM Conference on Knowledge and Information Management (CIKM)*, 2026. (Acceptance Rate: 27%)
*Equal contribution.
- Koichi Tanaka**, Kazuki Kawamura, Takanori Muroi, Yusuke Narita, Yuki Sasamoto, Kei Tateno, Takuma Udagawa, Wei-Wei Du, Yuta Saito. “Off-Policy Evaluation for Ranking Policies under Deterministic Logging Policies.” *International Conference on Learning Representations (ICLR)*, 2026. (Acceptance Rate: 28%)
- Ren Kishimoto, Rikiya Takehi, **Koichi Tanaka**, Masahiro Nomura, Riku Togashi, Yoji Tomita, Yuta Saito. “Beyond Match Maximization and Fairness: Retention-Optimized Two-Sided Matching.” *International Conference on Learning Representations (ICLR)*, 2026. (Acceptance Rate: 28%)
- Koichi Tanaka***, Ren Kishimoto*, Bushun Kawagishi, Yusuke Narita, Yasuo Yamamoto, Nobuyuki Shimizu, Yuta Saito. “Off-Policy Learning with Limited Supply.” *The ACM Web Conference (TheWebConf)*, 2026. (Acceptance Rate: 20.1%)
*Equal contribution.
- Tatsuhiro Shimizu*, **Koichi Tanaka***, Ren Kishimoto, Haruka Kiyohara, Masahiro Nomura, Yuta Saito. “Effective Off-Policy Evaluation and Learning in Contextual Combinatorial Bandits.” *18th ACM Conference on Recommender Systems (RecSys)*, 2024. **Oral**. (Acceptance Rate: 22%)
*Equal contribution.

Workshop Papers

- Koichi Tanaka**, Zhi Wang, Masahiro Asami, Kota Ishizuka, Kosuke Kawakami, Yuta Saito. “Ad Asset Portfolio Optimization via Policy Learning.” *KDD Workshop on AdKDD*, 2026.
- Yuki Shibukawa, **Koichi Tanaka**, Yuta Saito, Shinji Ito. “Combinatorial Allocation Bandits with Nonlinear Arm Utility.” *ICML Workshop on Decision-Making from Offline Datasets to Online Adaptation: Black-Box Optimization to Reinforcement Learning*, 2026.
- Ren Kishimoto*, **Koichi Tanaka***, Haruka Kiyohara, Yusuke Narita, Nobuyuki Shimizu, Yasuo Yamamoto, Yuta Saito. “Efficient Offline Learning of Ranking Policies via Top-k Policy Decomposition.” *ICML Workshop: Aligning Reinforcement Learning Experimentalists and Theorists*, 2024.
*Equal contribution.

Under Review

- Rikiya Takehi*, **Koichi Tanaka***, Ren Kishimoto, Masahiro Nomura, Riku Togashi, Yuta Saito. “Objective-Driven Calibrated Recommendations.” Under review, 2026.
*Equal contribution.

SKILLS

- **Programming:** Python
- **Tools:** Git, GitHub, L^AT_EX

Professional Service

Conference Program Committee

- CIKM 2026