Hiroaki Yamagiwa

Ph.D. student, Graduate School of Informatics, Kyoto University, Kyoto, Japan
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Profiles: [Portfolio](#) — [Google Scholar](#) — [GitHub](#) — [LinkedIn](#)

RESEARCH INTERESTS

Natural Language Processing, Optimal Transport, Computer Vision, Software Engineering

EDUCATION

Kyoto University, Kyoto, Japan — Apr. 2022 — Present
Ph.D. student in Informatics

Kyoto University, Kyoto, Japan — Apr. 2020 — Mar. 2022
Master of Science in Informatics

Kyoto University, Kyoto, Japan — Apr. 2015 — Mar. 2020
Bachelor of Science in Mathematics

EXPERIENCE

Rist Inc. — Kyoto, Japan
Research Intern — Aug. 2023 — Sep. 2023

- We proposed a new zero-shot edge detection method [1] that was accepted at the WACV 2024 workshop.

Kyoto University — Kyoto, Japan
Research Assistant — Apr. 2023 — Present

RIKEN — Remote, Japan
Part-time Researcher — Aug. 2021 — Mar. 2022

DATAGRID Inc. — Kyoto, Japan
Part-time Engineer — Dec. 2020 — Jul. 2021

- Natural Language Processing Engineer

Rist Inc. — Kyoto, Japan
Part-time Engineer — Sep. 2019 — Present

- Machine Learning Engineer

PUBLICATIONS

(∗) denotes equal contribution.

1. Hiroaki Yamagiwa, Yusuke Takase, Hiroyuki Kambe, Ryosuke Nakamoto. 2024. [Zero-Shot Edge Detection with SCE-SAME: Spectral Clustering-based Ensemble for Segment Anything Model Estimation](#). In Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) Workshops, pages 541–551. IEEE.
2. Hiroaki Yamagiwa∗, Momose Oyama∗, Hidetoshi Shimodaira. 2023. [Discovering Universal Geometry in Embeddings with ICA](#). In Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing, pages 4647–4675. Association for Computational Linguistics.
3. Hiroaki Yamagiwa, Sho Yokoi, and Hidetoshi Shimodaira. 2023. [Improving word mover's distance by leveraging self-attention matrix](#). In Findings of the Association for Computational Linguistics: EMNLP 2023, pages 11160—11183. Association for Computational Linguistics.

GRANTS

- [Kyoto University Science and Technology Innovation Fellowship](#) (Apr. 2022 — Mar. 2025).

SKILLS

- **Programming:** Python, C++, Linux, Docker

- **Language:** Japanese, English
- **Kaggle:** Competitions Expert

REFERENCES

Prof. Hidetoshi Shimodaira
Professor, Graduate School of Informatics, Kyoto University, Kyoto, Japan
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