

Yukinori Yamamoto

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ABOUT

Student researcher with a strong interest in exploring the practical applications of autonomous systems using machine learning. Research spans Computer Vision, Computer Graphics, and Human-Computer Interaction. Pursuing a major in Intermedia Art and Science, driven to develop practical AI systems that contribute meaningfully to society. Affiliated with Prof. Ogata's Laboratory, AIST AIRC (under Dr. Hirokazu Nosato and Dr. Hirokatsu Kataoka), and cvpaper.challenge. Also collaborates with Dr. Tsukasa Fukusato and Dr. Kazuya Nishimura.

PUBLICATIONS

Yamamoto, Y., Nishimura, K., Fukusato, T., Nosato, H., Ogata, T., & Kataoka, H. (2026). FDIF: Formula-Driven Supervised Learning with Implicit Functions for 3D Medical Image Segmentation. *arXiv preprint*. <https://arxiv.org/abs/2603.23199>

Khan, A., Rai, U., Singh, S. S., **Yamamoto, Y.**, Ibarreche, X. G., Meadows, H., & Gleyzer, S. (2024). OCR Approaches for Humanities: Applications of Artificial Intelligence/Machine Learning on Transcription and Transliteration of Historical Documents. *Digital Studies in Language and Literature*, 1(1–2), 85–112. <https://doi.org/10.1515/dsll-2024-0013>

EXPERIENCE

Research Staff April 2026 – Present

R&D Center · Hyundai Kia Japan — Japan

Conduct research into the fusion of image-generative models and human-computer interaction (HCI).

Mentor (Google Summer of Code) April 2026 – Present

RenAIssance (Open Source) — Remote

Assist contributors to research and develop OCR models for historical documents.

AI Engineering & Business Intern Feb 2026 – Apr 2026

Embodied Intelligence Group · ABEJA, Inc. — Japan

Experienced business planning and implementations related to Physical AI.

Technical Trainee (Intern) Aug 2025 – Present

Human-AI Collaborative Systems Research Team, AIRC · National Institute of Advanced Industrial Science and Technology (AIST) — Japan

Conducting research on training methodologies for 3D medical image segmentation models under the guidance of Dr. Hirokazu Nosato.

Contributor (Google Summer of Code) May 2025 – Sep 2025

RenAIssance (Open Source) — Remote

Researched and developed OCR models for historical documents as part of Google Summer of Code.

AI Engineering Intern Sep 2024 – May 2025

AI Technology Department · Ghelia Inc. — Japan

Implemented reinforcement learning and mathematical optimization algorithms for AI development projects.

Contributor (Google Summer of Code) May 2024 – Sep 2024

RenAIssance (Open Source) — Remote

Researched and developed OCR models for historical documents as part of Google Summer of Code.

EDUCATION

Waseda University

Expected March 2027

Bachelor of Engineering — Department of Intermedia Art and Science

SKILLS

- ✓ Python — 10+ years of experience
- ✓ Deep Learning — 3+ years of experience
- ✓ Computer Vision & Image Segmentation
- ✓ Reinforcement Learning & Mathematical Optimization
- ✓ OCR & Document AI
- ✓ 3D Medical Image Processing

LANGUAGES

- ✓ IELTS Academic — Overall 7.0 (Listening 8.0, Reading 8.0, Writing 6.5, Speaking 6.0), May 2026

AWARDS

WASEDA Gap Fund Project 2025 Accepted (October 2025)

An official Waseda University program supporting student entrepreneurs. Received 150,000 yen to verify the profitability of a business plan relating agriculture and robotics.

[View Award](#)

Excellence Award — The 4th Hoshi Awards, Junior Category (2017)

[View Award](#)