

Junichi Nagasawa

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<https://jnagasawa.github.io>



Education

University of Stuttgart, Stuttgart, Germany

M.Sc. in Computer Science, Faculty of Computer Science, Electrical Engineering and Information Technology

Apr 2024 – Mar 2027 (expected)

Kobe University, Kobe, Japan

B.Sc. in Maritime Sciences, Department of Global Transportation Sciences (Logistics Course)
Human Interface Laboratory

Apr 2022 – Mar 2024

Tsinghua University, Beijing, China

Department of Automation

Aug 2019 – Mar 2022

Withdrew in March 2022 due to COVID-19-related border restrictions; transferred to Kobe University.

Seifu High School, Osaka, Japan

Apr 2015 – Mar 2018

Research Papers

1. Junichi Nagasawa, Yuichi Nakata, Mamoru Hiroe, Yujia Zheng, Yutaka Kawaguchi, Yuji Maegawa, Naoki Hojo, Tetsuya Takiguchi, Minoru Nakayama, Maki Uchimura, Yuma Sonoda, Hisatomo Kowa, and Takashi Nagamatsu. 2024. Attempts on detecting Alzheimer's disease by fine-tuning pre-trained model with Gaze Data. In Proceedings of the 2024 Symposium on Eye Tracking Research and Applications (ETRA '24). Association for Computing Machinery, New York, NY, USA, Article 56, 1–3.
<https://doi.org/10.1145/3649902.3656360>

2. J. Nagasawa, T. Isomoto, M. Hiroe, Y. Nakata, and T. Nagamatsu, "注視点に基づいた個人識別への顕著性マップ手法導入の検討" (Investigation of Introducing Saliency Map Techniques for Person Identification Based on Gaze Points), in Proceedings of IPSJ Interaction 2025, Information Processing Society of Japan, 2025.
<https://www.interaction-ipsj.org/proceedings/2025/data/pdf/3P-91.pdf>
3. Junichi Nagasawa, Toshiya Isomoto, and Takashi Nagamatsu. 2025. Exploring Individual Differences in Gaze Patterns using Recurrence Plot. In Proceedings of the 2025 Symposium on Eye Tracking Research and Applications (ETRA '25). Association for Computing Machinery, New York, NY, USA, Article 46, 1–3. <https://doi.org/10.1145/3715669.3726830>
4. Takeru Mukunoki, Junichi Nagasawa, Yuichi Nakata, Mamoru Hiroe, Yujia Zheng, Minoru Nakayama, Yuma Sonoda, Hisatomo Kowa, and Takashi Nagamatsu. 2025. Dementia detection by gaze using visuospatial memory task with CNN. In Proceedings of the 2025 Symposium on Eye Tracking Research and Applications (ETRA '25). Association for Computing Machinery, New York, NY, USA, Article 39, 1–3.
<https://doi.org/10.1145/3715669.3726839>
5. J. Nagasawa, M. Hiroe, Y. Nakata, Y. Maegawa, J. Kamahara, N. Hojo, T. Takiguchi, S. Aoyagi, M. Yamamoto and T. Nagamatsu, "Emotion Classification from Gaze Data Alone: A Deep Learning Approach without Pupil Diameter", in *IEEE Access* (under review).
6. Junichi Nagasawa, Toshiya Isomoto, Hiroe Mamoru, and Takashi Nagamatsu. "Who You Are is How You Look: Implicit User Identification by Comparing Actual Gaze with Personalized Saliency Maps", in ETRA 2026 (under review).
7. Yao Wang, Junichi Nagasawa, Yue Jiang, Danqing Shi, Chuhan Jiao, and Andreas Bulling. "Is this it? Benchmarking Scanpath Metrics for Information Display", in ETRA 2026 (under review).
8. Junichi Nagasawa, Toshiya Isomoto, Hiroe Mamoru, and Takashi Nagamatsu. "MCFW-Gaze: MultiContext Free-Web Gaze Dataset", in ETRA 2026(under review).

Patent

- "Eye Tracking Authentication Method, Eye Tracking Authentication Device, and Eye Tracking Authentication Program", Junichi Nagasawa and Takashi Nagamatsu.

No. 2025-182947, submitted on October 29 2025, under review.

Professional Experience

Collaborative Artificial Intelligence Group, University of Stuttgart, Stuttgart, Germany

Research Assistant

Jul 2025 – Present

LY Corporation (Yahoo! JAPAN), Research Division, Tokyo, Japan

Research Intern

Research topic: Development of an implicit authentication method based on eye movements.

Nov 2024 – Mar 2025

Kwansei Gakuin University, Kobe, Japan

Contract Researcher

Research topic: Construction of deep learning models for early detection of Alzheimer's disease using gaze data.

Apr 2024 – Present

Anchor Technologies, Inc., Tokyo, Japan

Subcontractor (OSINT Tool Evaluation)

Validation and testing of Maltego, an OSINT (Open Source Intelligence) platform.

Aug 2023 – Present

Kobe University, Kobe, Japan

Teaching Assistant – Python Course

Apr 2023 – Mar 2024

GLOBAL LAW OFFICE, Beijing, China

Legal Translation Intern

Jan 2019 – Jun 2019

Licenses

COMPTIA Pentest+ (ID: COMP001021932626)

IELTS 7.0 (TRF No. 23JP004111NAGJ512A)

HSK 5

Skills and Additional Experiences

Interactive Presentation Award, IPSJ Interaction 2025 (Mar 2025)

Top 3% among all accepted submissions.

Chinese Government Scholarship (Sep 2020 – Mar 2022)

Full scholarship covering tuition, dormitory, and living expenses.

Tsinghua University Scholarship (Sep 2019 – Aug 2020)

Full tuition waiver.

TryHackMe

Ranked in the top 0.23% (4,500th out of 2 million participants).

Hacking Contest, NRI Secure (2022)

Ranked 21st in Japan.

Sailing Team Japan (Apr 2015 – Mar 2017)

Represented Japan in two World Championships.

Designated Athlete, Japan Sailing Federation Olympic Training Committee (Apr 2016 – Mar 2017)

Received full financial support for international competition.