Kentaro ONDA

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RESEARCH INTERESTS

Speech processing, human perception, automatic speech recognition, foreign accent, self-supervised learning, discrete tokens

EDUCATION

The University of Tokyo, Tokyo, Japan   Apr. 2024 — Present
Master of Engineering in Electrical Engineering and Information Systems
Supervisor: Professor Nobuaki Minematsu

The University of Tokyo, Tokyo, Japan   Apr. 2020 — Mar. 2024
Bachelor of Engineering in Information and Communication Engineering
Supervisor: Professor Nobuaki Minematsu

PUBLICATIONS

Peer-Reviewed International Conferences

1. **<u>Kentaro Onda</u>**, Satoru Fukayama, Daisuke Saito, Nobuaki Minematsu, "Benchmarking Prosody Encoding in Discrete Speech Tokens," Proc. ASRU 2025, pp. xx-xx (ACCEPTED)
2. **<u>Kentaro Onda</u>**, Keisuke Imoto, Satoru Fukayama, Daisuke Saito, Nobuaki Minematsu, "Discrete Tokens Exhibit Interlanguage Speech Intelligibility Benefit: an Analytical Study Towards Accent-robust ASR Only with Native Speech Data," Proc. Interspeech 2025, pp. xx-xx (ACCEPTED)
3. **<u>Kentaro Onda</u>**, Keisuke Imoto, Satoru Fukayama, Daisuke Saito, Nobuaki Minematsu, "Prosodically Enhanced Foreign Accent Simulation by Discrete Token-based Resynthesis Only with Native Speech Corpora," Proc. Interspeech 2025, pp. xx-xx (ACCEPTED)
4. **<u>Kentaro Onda</u>**, Yosuke Kashiwagi, Emiru Tsunoo, Hayato Futami, Shinji Watanabe, "Differentiable K-means for Fully-optimized Discrete Token-based ASR," Proc. Interspeech 2025, pp. xx-xx (ACCEPTED)
5. **<u>Kentaro Onda</u>**, Joonyong Park, Nobuaki Minematsu, Daisuke Saito, "A Pilot Study of GSLM-based Simulation of Foreign Accentuation Only Using Native Speech Corpora," Proc. Interspeech 2024, pp. 3600-3604

Abstract-reviewed Conferences (no proceedings)

1. **<u>Kentaro Onda</u>**, Joonyong Park, Daisuke Saito, Nobuaki Minematsu, "Simulation of Foreign Accentuation by Discrete Symbol-based Resynthesis Using Only Native Speech Corpora," Eighth International Workshop on Symbolic-Neural Learning (SNL2024), Tokyo, Japan

Non-peer-reviewed Domestic Conferences

1. **<u>Kentaro Onda</u>**, Satoru Fukayama, Keisuke Imoto, Daisuke Saito, Nobuaki Minematsu, "Exploring the usage of discrete tokens for accent-robust automatic speech recognition only using native speech corpora," Proc. 2025 Spring Meeting of the Acoustical Society of Japan, 1-11-6 (***Best Student Presentation Award***)
2. Xiai Cheng, Haopeng Geng, **<u>Kentaro Onda</u>**, Daisuke Saito, Nobuaki Minematsu, "Predicting Individual Language Learners' Oral Imitation By Modeling their Performance using seq-to-seq VC," Proc. 2025 Spring Meeting of the Acoustical Society of Japan, 3-2-3
3. **<u>Kentaro Onda</u>**, Joonyong Park, Keisuke Imoto, Satoru Fukayama, Daisuke Saito, Nobuaki Minematsu, "Improved Foreign Accent Simulation Using Only Native Speech Corpora Based on Discrete Token Duration Prediction," IPSJ SIG Technical Report, SLP-154, 2024,
4. Xiai Cheng, **<u>Kentaro Onda</u>**, Daisuke Saito, Nobuaki Minematsu, "Analyzing Language Learners' Oral Imitation Through Machine Model of Oral Imitation with Foreign Accentuation," Proc. 2024 Autumn Meeting of the Acoustical Society of Japan, 2-Q-31
5. **<u>Kentaro Onda</u>**, Joonyong Park, Daisuke Saito, Nobuaki Minematsu, "Synthesis of Foreign Accented Speech by Self-supervised Learning Only Using Native Speech Corpora," IPSJ SIG Technical Report, SLP-152, 2024 (***Best Presentation Award***)
6. **<u>Kentaro Onda</u>**, Joonyong Park, Nobuaki Minematsu, Daisuke Saito, "Generating foreign accented speech using native speech corpus only for training," Proc. 2024 Spring Meeting of the Acoustical Society of Japan, 3-P-17

AWARDS

Best Student Presentation Award of ASJ   Sep., 2025

Travel Grant Award for Interspeech2025, 1,000 EUR   Aug., 2025

2024 Otogaku Symposium Best Presentation Award   Jun., 2024

COMPETITIVE FUNDS

AIST KAKUSEI Project, 3,000,000 JPY   Jul., 2024 — Mar. 2025
Representative: **<u>Kentaro Onda</u>**

MITOU Advanced Program, 15,040,000 JPY (Development grant)   Jun., 2024 — Feb. 2025
Representative: Masatoshi Otake

RESEARCH EXPERIENCE

Research Internship, Sony Group Corporation – Tokyo, Japan   Sep. 2024 — Present
Mentor: Yosuke Kashiwagi

Research Assistant, National Institute of Advanced Industrial Science and Technology   Jul. 2024 — Present
(AIST) – Tokyo, Japan
Mentor: Satoru Fukayama

OTHER EXPERIENCES

AI Engineer, DubGuild, Inc. – Tokyo, Japan   Oct. 2024 — Present

Software Engineer Internship, MIXI, Inc. – Tokyo, Japan   Oct. 2024 — Oct. 2024

Backend Engineer, Wantedly, Inc. – Tokyo, Japan   Sep. 2023 — Jul. 2024

LANGUAGES

Japanese (Native), English (Fluent)

SKILLS

Programming: Python, Shell Script, Ruby, Go, JavaScript, C, C++, Julia

Web design: HTML, CSS

Other: LaTeX, Git, Microsoft Office