

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. **Kentaro Onda**, Satoru Fukayama, Daisuke Saito, Nobuaki Minematsu, “Benchmarking Prosody Encoding in Discrete Speech Tokens,” Proc. ASRU 2025, pp. xx-xx (ACCEPTED)
2. **Kentaro Onda**, 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. 221-225
3. **Kentaro Onda**, 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. 2195-2199
4. **Kentaro Onda**, Yosuke Kashiwagi, Emiru Tsunoo, Hayato Futami, Shinji Watanabe, “Differentiable K-means for Fully-optimized Discrete Token-based ASR,” Proc. Interspeech 2025, pp. 1223-1227
5. **Kentaro Onda**, 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. **Kentaro Onda**, 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. **Kentaro Onda**, Satoru Fukayama, Daisuke Saito, Nobuaki Minematsu, “An Analytical Study on the Prosodic Encoding of Discrete Speech Tokens,” Proc. 2025 Autumn Meeting of the Acoustical Society of Japan, 1-Q-35
2. **Kentaro Onda**, 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**)
3. Xiai Cheng, Haopeng Geng, **Kentaro Onda**, 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
4. **Kentaro Onda**, 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,
5. Xiai Cheng, **Kentaro Onda**, 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
6. **Kentaro Onda**, 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**)
7. **Kentaro Onda**, 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 Otagaku Symposium Best Presentation Award	Jun., 2024

COMPETITIVE FUNDS

JST ACT-X , 4,500,000 JPY Representative: <u>Kentaro Onda</u>	Oct., 2025 — Mar. 2028
AIST KAKUSEI Project , 3,000,000 JPY Representative: <u>Kentaro Onda</u>	Jul., 2024 — Mar. 2025
MITOU Advanced Program , 15,040,000 JPY (Development grant) Representative: Masatoshi Otake	Jun., 2024 — Feb. 2025

RESEARCH EXPERIENCE

Research Internship , Sony Group Corporation – Tokyo, Japan Mentor: Yosuke Kashiwagi	Sep. 2024 — Present
Research Assistant , National Institute of Advanced Industrial Science and Technology (AIST) – Tokyo, Japan Mentor: Satoru Fukayama	Jul. 2024 — Present

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