

# Kentaro ONDA

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## RESEARCH INTERESTS

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

## EDUCATION

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**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

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### 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

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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

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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

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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

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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

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Japanese (Native), English (Fluent)

## SKILLS

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

**Web design:** HTML, CSS

**Other:** LaTeX, Git, Microsoft Office