

# Kentaro ONDA

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## RESEARCH INTERESTS

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Spoken language processing, speech tokenization, self-supervised learning, human perception, foreign accent

## EDUCATION

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<b>The University of Tokyo</b> , Tokyo, Japan Ph.D. in Electrical Engineering and Information Systems Supervisor: Prof. Nobuaki Minematsu	Apr. 2026 (expected) — Mar. 2029 (expected)
<b>The University of Tokyo</b> , Tokyo, Japan M.E. in Electrical Engineering and Information Systems Supervisor: Prof. Nobuaki Minematsu	Apr. 2024 — Mar. 2026 (expected)
<b>The University of Tokyo</b> , Tokyo, Japan B.E. in Information and Communication Engineering Supervisor: Prof. Nobuaki Minematsu	Apr. 2020 — Mar. 2024

## PUBLICATIONS

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### Peer-Reviewed International Conferences

1. **Kentaro Onda**, Hayato Futami, Yosuke Kashiwagi, Emiru Tsunoo, Shinji Watanabe, "Phonological Tokenizer: Prosody-aware Phonetic Token via Multi-objective Fine-tuning with Differentiable K-means," Proc. ICASSP 2026 (UNDER REVIEW)
2. **Kentaro Onda**, Satoru Fukayama, Daisuke Saito, Nobuaki Minematsu, "Advanced Modeling of Interlanguage Speech Intelligibility Benefit with L1-L2 Multi-task Learning Using Differentiable K-means for Accent-robust Discrete Token-based ASR," Proc. ICASSP 2026 (UNDER REVIEW)
3. **Kentaro Onda**, Satoru Fukayama, Daisuke Saito, Nobuaki Minematsu, "Benchmarking Prosody Encoding in Discrete Speech Tokens," Proc. ASRU 2025, pp. xx-xx (ACCEPTED)
4. **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
5. **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
6. **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
7. **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, "Advanced Simulation of Interlanguage Speech Intelligibility Benefit via Multi-task Learning of L1/L2 Using Differentiable K-means for Accent-robust ASR," IPSJ SIG Technical Report, SLP-158, 2025 (*Encouragement Award*)
2. **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
3. **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*)
4. 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

5. **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
6. 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
7. **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**)
8. **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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<b>Encouragement Award</b> from Information Processing Society of Japan (IPSJ) SIG-SLP & SIG-NLP	Dec., 2025
<b>Best Student Presentation Award</b> from the Acoustical Society of Japan (ASJ)	Sep., 2025
<b>Travel Grant Award for Interspeech2025</b> , 1,000 EUR from the International Speech Communication Association (ISCA)	Aug., 2025
<b>2024 Otogaku Symposium Best Presentation Award</b> from Information Processing Society of Japan (IPSJ) SIG-SLP	Jun., 2024

## COMPETITIVE FUNDS

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<b>ACT-X</b> , 4,500,000 JPY from Japan Science and Technology Agency (JST) Representative: <u>Kentaro Onda</u>	Oct., 2025 — Mar. 2028
<b>KAKUSEI Project</b> , 3,000,000 JPY from National Institute of Advanced Industrial Science and Technology (AIST) Representative: <u>Kentaro Onda</u>	Jul., 2024 — Mar. 2025
<b>MITOU Advanced Program</b> , 15,040,000 JPY (Development grant) from Information-technology Promotion Agency (IPA) Representative: Masatoshi Otake	Jun., 2024 — Feb. 2025

## PAPER REVIEWS

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TASLP: 2025

## RESEARCH EXPERIENCE

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

## OTHER EXPERIENCES

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<b>AI Engineer</b> , DubGuild, Inc. – Tokyo, Japan	Oct. 2024 — Mar. 2025
<b>Software Engineer Internship</b> , MIXI, Inc. – Tokyo, Japan	Oct. 2024 — Oct. 2024
<b>Backend Engineer</b> , 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, PyTorch, ESPnet