RYO MAGOSHI

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Google Scholar: https://scholar.google.co.jp/citations?user=hP617uUAAAAJ

Graduate student at Kyoto University focusing on multilingual ASR and speech LLMs. Currently completing an M.S.; admitted to the Ph.D. program starting April 2027. First author of four papers at INTERSPEECH and IEEE SLT, one of which was nominated for the Best Student Paper Award at INTERSPEECH 2026.

RESEARCH INTERESTS

- Speech Recognition: Multilinguality, Low-Resource and Zero-Shot Languages, Articulatory Features
- Post-Training of LLMs and Speech LLMs: Domain Adaptation, Reinforcement Learning (RLVR, Preference Optimization), Multilingual Capabilities
- Spoken Dialogue Systems: Cascaded or Full-duplex Dialogue Systems

EDUCATION

Ph.D. (admitted) in Informatics, Kyoto University, Kyoto, Japan Starting 04/2027

Graduate School of Informatics, Kyoto University
- Supervisor: Tatsuya Kawahara

M.S. in Informatics, Kyoto University, Kyoto, Japan 04/2025 – 03/2027

Graduate School of Informatics, Kyoto University
- Thesis title: *LLM-based Speech Recognition for Low-Resource Languages and Domains*
- Supervisor: Tatsuya Kawahara

B.E., Kyoto University, Kyoto, Japan 04/2021 – 03/2025

Undergraduate School of Informatics and Mathematical Science, Faculty of Engineering
- Supervisor: Tatsuya Kawahara

PUBLICATIONS

Conference Papers (First Author)

[C1] **Ryo Magoshi**, Shinsuke Sakai, Tatsuya Kawahara. "Phoneme-Guided Initialization for LLM-based Speech Recognition." *Proc. IEEE Spoken Language Technology Workshop (SLT)*, 2026 (to appear). [arXiv]

[C2] **Ryo Magoshi**, Jaeyoung Lee, Shinsuke Sakai, Tatsuya Kawahara. "Improving Zero-Shot Phonetic Classification through Language-Agnostic Articulatory Features." *Proc. INTERSPEECH*, 2026. **(Nominated for Best Student Paper Award)** [ISCA Archive]

[C3] **Ryo Magoshi**, Takashi Maekaku, Yusuke Shinohara. "Refining Pseudo-Audio Prompts with Speech-Text Alignment for Text-Only Domain Adaptation in LLM-Based ASR." *Proc. INTERSPEECH*, 2026. [ISCA Archive]

[C4] **Ryo Magoshi**, Shinsuke Sakai, Jaeyoung Lee, Tatsuya Kawahara. "Multi-lingual and Zero-Shot Speech Recognition by Incorporating Classification of Language-Independent Articulatory Features." *Proc. INTERSPEECH*, 2025. [ISCA Archive]

Conference Papers (Co-Author)

[C5] Jaeyoung Lee, Masato Mimura, **Ryo Magoshi**, Tatsuya Kawahara. "LLM-as-Joiner: Decoupling Alignment from Language Modeling in Label-synchronous ASR." *Proc. INTERSPEECH*, 2026. [ISCA Archive]

[C6] Masato Mimura, Jaeyoung Lee, **Ryo Magoshi**, Tatsuya Kawahara. "Mixtures of Lightweight Articulatory Experts for Multilingual ASR." *Proc. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2026. [PDF]

AWARDS

Best Student Paper Award Nominee (one of 14 nominees), from INTERSPEECH 2026, Sydney, Australia, nominated August 2026

- Paper title: "Improving Zero-Shot Phonetic Classification through Language-Agnostic Articulatory Features"
- [Nominee list]

WORK EXPERIENCE

LY Corporation 08/2025 – 10/2025

Research Internship

- Worked on text-only domain adaptation as a form of post-training for LLM-based ASR, improving word error rate and out-of-vocabulary recall by about 20% (relative)
- Published as [C3]

TECHNICAL STRENGTHS

- Languages: Python, C++, TypeScript
- Frameworks: PyTorch, ESPnet, NeMo, Megatron-LM, NeMo-RL, ms-swift, Fairseq, Django, React