Atsumoto Ohashi

Ph.D. Candidate

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RESEARCH INTEREST

I am Atsumoto Ohashi, a Ph.D. candidate in Informatics at Nagoya University, with a primary research focus on dialogue systems. My work has centered on optimizing **task-oriented dialogue systems** through the integration of NLP and **reinforcement learning (RL) techniques** (EMNLP 2023, NAACL 2024, and AAAI 2025). Recently, my research interests have expanded to spoken language models and **full-duplex spoken dialogue systems** (INTERSPEECH 2025) for real-time and more natural conversational experiences.

RESEARCH EXPERIENCE

Kyutai, Paris, France   September 2025 – Present
Visiting PhD Student
Mentors: Eugene Kharitonov, Alexandre Defossez, Neil Zeghidour
Project: Improving turn-taking behaviors of full-duplex spoken language models with RL

National Institute of Informatics (NII), Remote   June 2025 – September 2025
Research Assistant
Project: Development of spoken dialogue models at LLM-jp project

CyberAgent AI Lab, Tokyo, Japan   August 2023 – September 20233
Research Intern
Mentors: Ukyo Honda, Tetsuro Morimura, Yuu Jinnai
Project: Analyzing minimum bayes risk (MBR) decoding for neural machine translation models

SELECTED PUBLICATIONS

Conferences

Towards a Japanese Full-duplex Spoken Dialogue System
Atsumoto Ohashi, Shinya Iizuka, Jingjing Jiang, Ryuichiro Higashinaka
In: *Proc. INTRESPEECH 2025*, pp. 1783–1787

Universal Post-Processing Networks for Joint Optimization of Modules in Task-Oriented Dialogue Systems
Atsumoto Ohashi, Ryuichiro Higashinaka
In: *Proc. AAAI 2025*, pp. 24975–24983

On the True Distribution Approximation of Minimum Bayes-Risk Decoding
Atsumoto Ohashi, Ukyo Honda, Tetsuro Morimura, Yuu Jinnai
In: *Proc. NAACL 2024*, pp. 459–468

JMultiWOZ: A Large-Scale Japanese Multi-Domain Task-Oriented Dialogue Dataset
Atsumoto Ohashi, Ryu Hirai, Shinya Iizuka, Ryuichiro Higashinaka
In: *LREC-COLING 2024*, pp. 9554–9567

Enhancing Task-oriented Dialogue Systems with Generative Post-processing Networks
Atsumoto Ohashi, Ryuichiro Higashinaka
In: *EMNLP 2023*, pp. 3815–3828

Adaptive Natural Language Generation for Task-oriented Dialogue via Reinforcement Learning
Atsumoto Ohashi, Ryuichiro Higashinaka
In: *COLING 2022*, pp. 242–252

Post-processing Networks: A Method for Optimizing Pipeline Task-oriented Dialogue Systems using Reinforcement Learning
Atsumoto Ohashi, Ryuichiro Higashinaka
In: *SIGDIAL 2022*, pp. 1–13

Journals

Optimizing pipeline task-oriented dialogue systems using post-processing networks
Atsumoto Ohashi, Ryuichiro Higashinaka
In: *Computer Speech & Language*, vol. 90, No. 101742

Adapting language generation to dialogue environments and users for task-oriented dialogue systems
Atsumoto Ohashi, Ryuichiro Higashinaka
In: *Natural Language Processing Journal*, vol. 11, No. 100153

EDUCATION

Nagoya University, Japan   April 2023 – Present
Ph.D. in Informatics
Advisor: Prof. Ryuichiro Higashinaka

Nagoya University, Japan   April 2021 – March 2023
M.S. in Informatics
Advisor: Prof. Ryuichiro Higashinaka

Nagoya University, Japan   April 2017 – March 2021
B.S. in Computer Science
Advisor: Prof. Ryuichiro Higashinaka

HONORS & AWARDS

Committee Special Award (32/726)   March 2025
The 31st Annual Meeting of the Association of Natural Language Processing (NLP2025)

Young Researcher Encouragement Award (18/406)   March 2023
The 29th Annual Meeting of the Association of Natural Language Processing (NLP2023)

Sponsor Award (5/386)   March 2022
The 28th Annual Meeting of the Association of Natural Language Processing (NLP2022)

Committee Special Award (16/365)   March 2022
The 28th Annual Meeting of the Association of Natural Language Processing (NLP2022)

Outstanding Academic Achievement   APRIL 2018
Department of Computer Science, Nagoya University

Chinese Speech Contest 4th Prize   December 2017
Nanjing University Cup, Nagoya University

Scholarship and Grants

JSPS Research Fellowship for Young Scientists (DC2) April 2025 – March 2027
  Research Immersion Support: 200,000 yen / month
  Research Expenses: 800,000 yen / year

Nagoya University Interdisciplinary Frontier Fellowship April 2023 – March 2026
  Research Immersion Support: 180,000 yen / month
  Research Expenses: 250,000 yen / year

Invited Talks

Towards Understanding Performance Variability in MBR Decoding June 2024
The 59th NLP Colloquium

EMNLP 2023 Conference Report December 2023
The 99th Meeting of Special Interest Group on Spoken Language Understanding and Dialogue Processing (SIG-SLUD99)

SIGDIAL 2022 & YRRSDS 2022 Conference Report December 2022
The 96th Meeting of Special Interest Group on Spoken Language Understanding and Dialogue Processing (SIG-SLUD96)