

# ATAUMOTO OHASHI

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## EDUCATION

### Ph.D. Student in Informatics | Nagoya University

APRIL 2023 – PRESENT

- Advised by Prof. Ryuichiro Higashinaka

### M.S. of Informatics | Nagoya University

APRIL 2021 – MARCH 2023

- Advisor: Prof. Ryuichiro Higashinaka
- Thesis: Optimizing Task-oriented Pipeline Dialogue Systems via Reinforcement Learning
- GPA: 4.0 on a 4.0 scale

### B.S. of Informatics | Nagoya University

APRIL 2017 – MARCH 2021

- Advised by Prof. Ryuichiro Higashinaka
- Thesis: Module-Linked Dialogue System Adapting to Users and Dialogue Situations



## PUBLICATIONS

(\* Equal contribution)

### International Conferences (refereed)

- Atsumoto Ohashi and Ryuichiro Higashinaka. “Enhancing Task-oriented Dialogue Systems with Generative Post-processing Networks,” *The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023)*, pages 3815–3828.
- Shinya Iizuka\*, Shota Mochizuki\*, Atsumoto Ohashi, Sanae Yamashita, Ao Guo and Ryuichiro Higashinaka. “Clarifying the Dialogue-Level Performance of GPT-3.5 and GPT-4 in Task-Oriented and Non-Task-Oriented Dialogue Systems,” *In AAAI Fall Symposium on Artificial Intelligence for Human-Robot Interaction (AI-HRI 2023)*
- Ao Guo, Atsumoto Ohashi, Yuya Chiba, Yuiko Tsunomori, Ryu Hirai and Ryuichiro Higashinaka. “Personality-aware Natural Language Generation for Task-oriented Dialogue using Reinforcement Learning,” *The 32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN 2023)*
- Atsumoto Ohashi and Ryuichiro Higashinaka. “Adaptive Natural Language Generation for Task-oriented Dialogue via Reinforcement Learning,” *The 29th International Conference on Computational Linguistics (COLING 2022)*, pages 242–252.
- Atsumoto Ohashi and Ryuichiro Higashinaka. “Post-processing Networks: A Method for Optimizing Pipeline Task-oriented Dialogue Systems using Reinforcement Learning,” *The 23rd Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2022)*, pages 1–13.

- Ao Guo, Atsumoto Ohashi, Ryu Hirai, Yuya Chiba, Yuiko Tsunomori and Ryuichiro Higashinaka. **“Influence of user personality on dialogue task performance: A case study using a rule-based dialogue system,”** *The 3rd Workshop on Natural Language Processing for Conversational AI (NLP4ConvAI 2021)*, pages 263–270.



## HONORS AND AWARDS

### 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



## INVITED TALKS

### EMNLP 2023 Conference Report

DECEMBER 2023

The 14th Dialogue Systems Symposium. 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 13rd Dialogue Systems Symposium. The 96th Meeting of Special Interest Group on Spoken Language Understanding and Dialogue Processing (SIG-SLUD96)



## SCHOLARSHIP AND GRANTS

### Nagoya University Interdisciplinary Frontier Fellowship

APRIL 2023 – MARCH 2026

- Research Immersion Support: 180,000 yen / month
- Research Expenses: 250,000 yen / year



## EXPERIENCES

### Research Intern at CyberAgent AI Lab

AUGUST 2023 – SEPTEMBER 2023

- I worked on improving minimum bayes risk (MBR) decoding for neural machine translation models.

### Dialogue Robot Competition 2022

MAY 2022 – SEPTEMBER 2022

- Leading a team of seven members, we implemented a spoken dialogue system to control a humanoid robot.

### Teaching Assistant for Intelligent Interface 2, Nagoya University

JUNE 2022 – AUGUST 2022

- I prepared lecture materials and setup dialogue systems to be used in the class.

### Dialogue Robot Competition 2021

JUNE 2021 – AUGUST 2021

- Leading a team of four members, we implemented a spoken dialogue system to control a humanoid robot.

### Short-term Study Abroad at Nanjing University, China

FEBRUARY 2018 – MARCH 2018

- As a supplementary prize for winning a Chinese Speech Contest, I participated in a one-month language exchange program at Nanjing University in China.



## SKILLS

- |          |                |
|----------|----------------|
| • Linux  | • TensorFlow   |
| • Git    | • Pytorch      |
| • Python | • Hugging Face |