

# Congda Ma

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## RESEARCH INTEREST

My research focuses on Natural Language Processing. I am passionate about addressing common issues in Generative AI, such as biases and hallucinations, present in pre-trained language models. I also have a strong interest in multimodal models. I am dedicated to contributing to the development of models that generate reliable and trustworthy outputs.

## PUBLICATION

### CONFERENCE PAPER

#### Debiasing Large Language Models with Structured Knowledge

Congda Ma, Tianyu Zhao, and Manabu Okumura

*Findings of the Association for Computational Linguistics: ACL 2024*

#### Coherent Story Generation with Structured Knowledge

Congda Ma, Kotaro Funakoshi, Kiyooki Shirai, and Manabu Okumura

*Proceedings of the 14th International Conference on Recent Advances in Natural Language Processing(RANLP 2023)*, pp. 681–690, (2023).

#### Focused Prefix Tuning for Controllable Text Generation

Congda Ma, Tianyu Zhao, Makoto Shing, Kei Sawada, and Manabu Okumura

*Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics(ACL 2023)*, Vol 2, pp. 1116-1127, (2023).

### JOURNAL PAPER

#### Focused Prefix Tuning for Controllable Text Generation

Congda Ma, Tianyu Zhao, Makoto Shing, Kei Sawada, and Manabu Okumura

*Journal of Natural Language Processing(JNLP)*, Vol 31(1), pp. 250-265, (2024).

## PRESENTATION

**TOPIC:** “Coherent Story Generation with Structured Knowledge”

@ RANLP 2023

**TOPIC:** “Focused Prefix Tuning for Controllable Text Generation”

@ ACL 2023

## EDUCATION

### Tokyo Institute of Technology

APR 2021 – DEC 2024, Tokyo, Japan

Okumura-Funakoshi Lab

Supervisor: Prof. Manabu Okumura

### Japan Advanced Institute of Science and Technology

APR 2019 - MAR 2021, Ishikawa, Japan

Shirai Lab

Supervisor: Prof. Kiyooki Shirai

M.S. in Information Science

### Nanjing University of Chinese Medicine

SEP 2011 - JUN 2015, Jiangsu, China

B.S. in Applied Psychology

## EXPERIENCE

### Sony Group Corporation (Research Internship)

AUG 2023 - SEP 2023, Tokyo, Japan

### rinna (Research Internship)

MAY 2022 - DEC 2022, Tokyo, Japan

### Tokyo Institute of Technology (Research Assistant)

MAY 2022 - NOV 2022, Tokyo, Japan

### Mitsubishi Heavy Industries (Internship)

JAN 2020- JAN 2020, Kanagawa, Japan

### Econess Energy (IT Engineer)

DEC 2015 - MAR 2017, Jiangsu, China

## CERTIFICATIONS

### 2022

Microsoft Certified: Security Operations Analyst Associate

Microsoft Certified: Azure Cosmos DB Developer Specialty

### 2020

Language and Intelligence Challenge (Machine Reading Comprehension): Top 5%

### 2019

JLPT N1

## **HONORS & AWARDS**

**Tsubame Scholarship**  
**JAIST Scholarship**  
**Ishikawa Scholarship**

## **SKILLS & OTHERS**

### **LANGUAGES**

Chinese (native language)  
English (TOEIC:800)  
Japanese (JLPT:N1)

### **GOOD KNOWLEDGE AND SKILLS**

Natural language Processing  
Python  
Large Language Model  
Multimodal Model  
Machine Learning