Dec 2023

# RYO KAMOI

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https://ryokamoi.github.io/

## EDUCATION

**Pennsylvania State University** - Ph.D. in Computer Science — Aug 2023 -
Advised by Dr. Rui Zhang

**University of Texas at Austin** - Master of Science in Computer Science — Aug 2020 - Dec 2022
Advised by Dr. Greg Durrett

**Keio University**, Japan - Bachelor of Engineering in Statistics — Apr 2016 - Mar 2020
Advised by Dr. Kei Kobayashi, Top student in the Department of Mathematics (Keio Engineering Foundation Award)

## RESEARCH INTERNSHIPS

**Amazon**, Cambridge, UK - Applied scientist intern in Alexa team (NLP) — Jul - Dec 2021
- Developed an interpretable answer quality evaluation metric for chatbot outputs.

**SenseTime Japan** - Research internship in computer vision for autonomous driving — Feb 2020 - Jan 2021
- Developed a system for unknown instance detection on a monocular camera for autonomous driving.

**Datasection Inc**, Japan - Research internship in NLP — May 2017 - Aug 2018
- Research in text generation models (e.g. text VAEs) with small training datasets.

## SELECTED PUBLICATIONS https://scholar.google.com/citations?user=4OWTLKAAAAAJ

My main research areas are error detection in language model outputs and evaluation metrics for text generation.

**Natural Language Processing**

**Ryo Kamoi**, Tanya Goyal, Juan Diego Rodriguez, and Greg Durrett. 2023. WiCE: Real-world Entailment for Claims in Wikipedia. *In EMNLP (main)*.

**Ryo Kamoi**, Tanya Goyal, Juan Diego Rodriguez, and Greg Durrett. 2023. Shortcomings of Question Answering Based Factuality Frameworks for Error Localization. *In EACL (main)*.

**Anomaly Detection in Computer Vision**

**Ryo Kamoi** and Kaname Tomite. 2021. Efficient Unknown Object Detection with Discrepancy Networks for Semantic Segmentation. *In the NeurIPS 2021 Workshop on Machine Learning for Autonomous Driving.*

**Ryo Kamoi** and Kei Kobayashi. 2020. Out-of-Distribution Detection with Likelihoods Assigned by Deep Generative Models Using Multimodal Prior Distributions. *In The AAAI's Workshop on Artificial Intelligence Safety*.

**Ryo Kamoi** and Kei Kobayashi. 2020. Why is the Mahalanobis Distance Effective for Anomaly Detection? *arXiv preprint arXiv:2003.00402*.

## SERVICE

**Reviewer** - EACL (2024), AISTATS (2021), BMVC (2020)

**Teaching Assistant, Penn State University**

CMPSC 448: Mach Learning and AI — Fall 2023

CMPSC 442: Artificial Intelligence — Spring 2024

## HONORS AND AWARDS

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|---|---|
| Keio University Global Fellowship - Scholarships for graduate study at UT Austin | 2020 |
| Keio Engineering Foundation Award - Graduation with highest honors (First place in the Dept. of Mathematics) | 2020 |
| Japan Student Services Organization (JASSO) Exchange Student Scholarship | 2018 |