Sep 2023

RYO KAMOI

ryokamoi@psu.edu
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 — GPA 4.00

Keio University, Japan - Bachelor of Engineering in Statistics — Apr 2016 - Mar 2020
Advised by Dr. Kei Kobayashi, Top student in the Department of Mathematics — GPA 3.95

RESEARCH INTERNSHIPS

Amazon, Cambridge, UK - Applied Scientist Intern in Alexa Team (NLP) — Jul - Dec 2021
- Proposed an interpretable model for answer quality evaluation for chatbots.

SenseTime Japan - Research Internship in CV for autonomous driving — Feb 2020 - Jan 2021
- Proposed a SOTA system of unknown instance detection on a monocular camera for autonomous driving.

Datasection Inc, Japan - Research Internship in NLP — May 2017 - Aug 2018
- Research in Natural Language Generation (especially text VAEs) trained on a small training dataset.

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

My main research area is natural language generation, with particular interests in evaluation metrics and error detection.

Natural Language Processing

Kamoi, R., Goyal, T., & Durrett, G. (2023). Shortcomings of Question Answering Based Factuality Frameworks for Error Localization. In *EACL* (main).

Kamoi, R., Goyal, T., Rodriguez, J. D., & Durrett, G. (2023). WiCE: Real-world Entailment for Claims in Wikipedia. *arXiv preprint 2303.01432*.

Anomaly Detection in Computer Vision

Kamoi, R., & Tomite, K. (2021). Efficient Unknown Object Detection with Discrepancy Networks for Semantic Segmentation. In *the NeurIPS 2021 Workshop on Machine Learning for Autonomous Driving.*

Kamoi, R., & Kobayashi, K. (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*.

Kamoi, R., & Kobayashi, K. (2020). Why is the Mahalanobis Distance Effective for Anomaly Detection? *arXiv preprint arXiv:2003.00402*.

HONORS AND AWARDS

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

SKILLS

- Python, PyTorch, TensorFlow
- Language: Japanese (native speaker)