

**RYO KAMOI**

ryokamoi@psu.edu

<https://ryokamoi.github.io/>**EDUCATION**

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<b>Pennsylvania State University</b> - Ph.D. in Computer Science	Aug 2023 -
Advised by Dr. Rui Zhang	
<b>University of Texas at Austin</b> - Master of Science in Computer Science	Aug 2020 - Dec 2022
Advised by Dr. Greg Durrett	
<b>Keio University</b> , Japan - Bachelor of Engineering in Statistics	Apr 2016 - Mar 2020
Advised by Dr. Kei Kobayashi, Top student in the Department of Mathematics	

**RESEARCH INTERNSHIPS**

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<b>Amazon</b> , Cambridge, UK - Applied scientist intern in Alexa team (NLP)	Jul - Dec 2021
- Developed an interpretable answer quality evaluation metric for chatbot outputs.	
<b>SenseTime Japan</b> - Research internship in computer vision for autonomous driving	Feb 2020 - Jan 2021
- Developed a SOTA system for unknown instance detection on a monocular camera for autonomous driving.	
<b>Datasection Inc.</b> , 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>

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

**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*.

**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