SHUNSUKE KITADA

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EDUCATION

Hosei University Graduate School, Tokyo, Japan *Apr 2020 - Present*
PhD in Engineering
Department of Applied Informatics

Hosei University Graduate School, Tokyo, Japan *Apr 2018 - Mar 2020*
Master in Engineering
Department of Applied Informatics

Hosei University, Tokyo, Japan *Apr 2014 - Mar 2018*
Bachelor of Science and Engineering

SELECTED PUBLICATIONS

International Conference

· **Shunsuke Kitada**, Hitoshi Iyatomi and Yoshifumi Seki, "Conversion Prediction Using Multi-task Conditional Attention Networks to Support the Creation of Effective Ad Creatives," Proc. of the 25th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2019 (Acceptance rate = **20.7**%).

· Takumi Aoki, **Shunsuke Kitada**, and Hitoshi Iyatomi, "Text Classification through Glyph-aware Disentangled Character Embedding and Semantic Sub-character Augmentation," Proc. of the 1st Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 10th International Joint Conference on Natural Language Processing: Student Research Workshop (AACL-IJCNLP), 2020.

· Mahmoud Daif, **Shunsuke Kitada**, and Hitoshi Iyatomi, "AraDIC: Arabic Document Classification Using Image-Based Character Embeddings and Class-Balanced Loss," Proc. of the 57th Annual Meeting of the Association for Computational Linguistics: Student Research Workshop (ACL SRW), 2020.

· **Shunsuke Kitada**, Ryunosuke Kotani, and Hitoshi Iyatomi, "End-to-End Text Classification via Image-based Embedding using Character-level Networks," Proc. of IEEE Applied Imagery Pattern Recognition (AIPR) workshop, 2018.

Domestic Conference

· **Shunsuke Kitada** and Hitoshi Iyatomi, "Relation loss: Learning to relate attention mechanisms and gradients for improving interpretability.", The 14th Symposium of NLP Young Association (YANS), in Hokkaido, Japan, 2019 ***(Honorable mention)***.

· **Shunsuke Kitada** and Hitoshi Iyatomi, "Body Hair Augmentation for Robust Skin Tumor Diagnosis Support.", *The 81st Annual Meeting of The Information Processing Society of Japan*, in Fukuoka, Japan, 2019 ***(Student honorable mention)***.

Preprint

· **Shunsuke Kitada**, and Hitoshi Iyatomi, "Attention Meets Perturbations: Robust and Interpretable Attention with Adversarial Training," CoRR preprint arXiv:2009.12064, 2020.

· **Shunsuke Kitada**, and Hitoshi Iyatomi. "Skin lesion classification with ensemble of squeeze-and-excitation networks and semi-supervised learning," CoRR preprint arXiv:1809.02568, 2018.

WORK EXPERIENCE

Gunosy Inc., Tokyo Mar, 2017 - Present
Data scientist and R&D Internship

- Conducted fundamental research to generate advertisement automatically. I have written a paper and prepared for a presentation for an international conference based on the results during my internship.
- I have worked on improving the user experience and participated in improving the logic of article distribution. Also visualized multiple KPIs and contributed to service growth through data analysis.
- I conducted research on ad creative evaluation using deep learning-based models. I wrote an academic paper based on this research and accepted my paper at a top tier data mining conference.

M3, Inc., Tokyo Jun, 2019 - Jul, 2019
Internship

- Quantified and visualized doctors' interest from browsing history. Based on these analyses, I built a system for recommending articles for doctors from scratch.

Piascore, Inc., Tokyo Jun, 2018 - Aug, 2018
Deep learning adviser

- I have advised how to solve practical problems of existing services that use machine learning algorithms and deep learning models. Additionally I have shown examples of the kind of problems recent deep learning methods are capable of solving.

Faber Company, Inc., Tokyo Mar 27 - Mar 29, 2018
Internship

- I implemented machine learning models that accurately capture semantic features of a document in a document similarity task.

NVIDA Japan, Tokyo
Teaching Assistant for Deep Learning Hands-on Training Lab

- Taught hands-on course at GTC Japan 2016 and 2017 DLI, NVIDIA Deep Learning Institute 2017 in Takada-no-baba and Tokyo Midtown.

VALUENEX Japan Inc., Tokyo Feb, 2016 - Feb, 2018
Part-time job

- Dealt with large-scale, nonstructural patent information in various forms, e.g., pre-processing, crawling, scraping and analyzing these data.

Works Applications Co., Ltd., Tokyo Aug 2015
Internship

- Planned and implemented enterprise resource planing (EPR) packages.

PROJECTS

Paper Survey Dec, 2017 - Present
Main author `https://github.com/shunk031/paper-survey`

- Survey of previous research and related works on machine learning (especially Deep Learning) in Japanese. This repository currently has got more than 100 stars. I am the only student who has done such an effort and has received the most stars in Japan.

AWARDS AND ACHIEVEMENTS

Hosei University Research Grant for Doctoral Course Adopters (480,000 JPY) Dec., 2020
Hosei University

JASSO Scholarship for Top 10% Excellent Master Students (2,112,000 JPY) Jul., 2020
Japan Student Services Organization

Honorable mention Aug., 2019
Young Researcher Association for NLP Studies (YANS) 2019

· The paper "Relation loss: Learning to relate attention mechanisms and gradients for improving interpretability" got the award in YANS2019.

Student honorable mention Mar., 2019
Information Processing Society of Japan (IPSJ) 2019

· The paper "Body hair augmentation for robust skin tumor diagnostic support." got the award in IPSJ2019.

Special prize of FR FRONTIER: Classification color in fashion images Sep., 2017
opt DSL Deep Analytics (currently SIGNATE Data Science Competition)

· Won student award using state-of-the-art deep learning models.

1st prize of HackU Hosei 2018 Aug., 2018
HacuU Hosei 2018

· I created a *ChashBox* that is an AI smart box with several members. I was in charge of creating a backend face recognition system.

INVITED TALKS

The Present and Future off Machine Learning for Ad Creatives Jun., 2020
The 34th Annual Conference of the Japanese Society for Artificial Intelligence (JSAI) 2020

· In this talk, I introduced my research topic: the framework of ad creative evaluation based on CVR prediction to support the creation of effective ad creative. Additionally, I will introduce several research topics related to the latest ad technology and discuss the current status and prospects achieved by the research on ad creative and machine learning techniques.

Research and development intern at a web service provider: Gunosy Inc. Sep., 2019
The 15th Symposium on Text Analytics at Tokyo, Japan.

· In this talk, I introduced a case study of research and development internship at Gunosy Inc.

PERSONAL TRAITS

Love research and development. I am enjoying research life, and I am currently conducting three research topics simultaneously, e.g., natural language processing, medical image based computer vision, advertising technology.

Every day read and implement the cutting-edge deep learning models from research paper. I have released many re-implementations of models using mainly PyTorch. Therefore, based on state-of-the-art cases, I can advise on deep learning base product design.

High technical communicativity. Summarize what I made and what I studied, and spread such information. This shows that I can input and output regularly.