MICHIHARU YAMASHITA

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Education

Tokyo Institute of Technology, Tokyo (Japan) April 2015 – March 2017
Master of Engineering in Computational Intelligence and System Science (Prof. Kazuo Yano) GPA: 3.86
Salutatorian (Graduated ranking **2nd** in the department)
Thesis: Does Temperature Change Happiness?: An Empirical Analysis Using Wearable Sensors in Offices (The Second Best Master Thesis Award)

University of Tsukuba, Tsukuba (Japan) April 2011 – March 2015
Bachelor of Engineering in Management Science and Engineering (Prof. Ushio Sumita) GPA: 3.31
Thesis: Network Analysis of Smartphone Applications Using Ownerships and Competitiveness

Employment

Recruit Holdings, Tokyo (Japan) April 2017 – January 2019
Machine Learning Engineer

- Researched on cross-disciplinary service data, which include a wide range of fields connecting life events like restaurant, beauty salon, travelling, marriage, and housing.
- Extracted user preference using GPS based location data (This research was accepted by **IEEE Big Data 2018**.)
- Developed a recommendation engine based on location based preference and improved over 10% accuracy more than previous one.

Recruit Institute of Technology, Mountain View (USA) April 2017 – March 2018
Research Scientist

- Developed an entity matching module En2Kana, which specified same meaning entities between Japanese and English (This research was accepted by **SIGMORPHON Workshop at EMNLP 2018**.)
- Applied En2Kana into our company and detected $20M potential sells.
- Developed an entity extraction module, which automatically detect beauty salons' websites from snippets of Google search.
- Evangelized data pre-processing components BigGorilla which help data scientists reduce the time of pre-processing.

Life is Tech USA, Los Angeles (USA) July 2019 – August 2019
Data Scientist Intern collaborated with Disney

- Analyzed access log data for improving the website contents.
- Enhanced search engine marketing for acquiring new customers.

Hitachi Central Research Laboratory, Tokyo (Japan) April 2015 – March 2017
Collaborative Research Student (Supervised by Prof. Kazuo Yano)

- Researched on computational social science and science of happiness.
- Developed a model of optimal thermal of people from wearable sensors (This research was accepted by IEICE.)
- Designed the laboratory environment and system as a first lab member.
- Exploratory Data Analysis using wearable sensor based data, which included infrared-based connection of people, acceleration, temperature and moisture.

Ohma, Tokyo (Japan) March 2016 – March 2017
Software Engineer Intern (Supervised by Prof. Yutaka Matsuo)

- Developed a people search engine SPYSEE2, which automatically collects and visualizes information with a strong focus on human relations and had more than **1 million page-views per month**.
- Developed Machine Learning and Natural Language Processing based algorithms for the extraction of various types of information about people (bio-data, profile picture, social network, related web pages etc.) from unstructured and noisy web data.
- Crawled millions of web pages efficiently using programs built to run using Amazon Web Services.
- Developed Face Recognition System which specify Asian people (This research was accepted by JSAI 2017)

Recruit Holdings, Tokyo (Japan) August 2016 – September 2016
Data Scientist Intern

- Developed a new recommendation engine of an e-commerce service Ponpare, which marked the best performance in the history of the company.

Fuller, Tokyo (Japan) April 2014 – March 2015
Collaborative Research Student

- Developed an algorithm for estimating key competitive performance measures of smartphone applications.

Taiyo Yuden Mobile Technology, Tokyo (Japan) April 2014 – March 2015
Collaborative Research Student

- Developed a simulation system of a factory's logistics based on Java.

Publications

- **Michiharu Yamashita**, Shota Katsumata, and Yusuke Fukasawa. "Discovery of User Preferences from Big Geospatial Data Using Topic Models." 2018 IEEE International Conference on Big Data (Big Data). IEEE, 2018. (https://ieeexplore.ieee.org/document/8622625)
- **Michiharu Yamashita**, Hideki Awashima, and Hidekazu Oiwa. "A Comparison of Entity Matching Methods between English and Japanese Katakana." Proceedings of the 15th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology at EMNLP, 2018. (https://www.aclweb.org/anthology/W18-5809)
- Kent Kawai, **Michiharu Yamashita**, and Yutaka Matsuo. "Face Recognition System Based on Convolutional Neural Network Robust to Occlusion and Low Quality Images." The 31st Annual Conference of the Japanese Society for Artificial Intelligence. JSAI, 2017.
- **Michiharu Yamashita**, Nobuo Sato, and Kazuo Yano. "Enhancing Collective Happiness by Controlling Room Temperature Using Big Data from Wearable Sensors." The 2016 IEICE General Conference. IEICE, 2016.

Honors and Awards

Recruit Holdings Freshman Award First Prize 2018 April 2018
1st in the whole of Recruit Holdings Group of over 500 freshmen

Recruit Holdings R&D MVP Award 2017 April 2018
1st in R&D department of Recruit Holdings of over 200 employees

Full Exemption of Student Loan $20,000 for Students with Excellent Grades August 2017
Top 10 % of 26,987 Graduate Students using the Loan at all universities in Japan

Salutatorian in Tokyo Institute of Technology March 2017
Graduated ranking **2nd** in the department

The Second Best Award for Master Thesis Presentation February 2017
Graduated ranking **2nd** in the department

Full Tuition Exemption for Students with Excellent Grades from Tokyo Institute of Technology April 2015 – March 2017

Recruit Holdings Internship Award First Prize 2016 March 2016
1st of over 30 intern students

Full Tuition Exemption for Students with Excellent Grades from University of Tsukuba April 2011 – March 2015

Technical Strengths

Language: Japanese (Native), English (Business), Mandarin (Beginner)
Programming and Software: Python, Java, C/C++, Swift, R, SQL, Javascript, HTML, CSS, LaTex
Framework and Tools: Tensorflow, Keras, Numpy/Scipy, scikit-learn, Flask, Elasticsearch, GCP, AWS