

MICHELLE KIM

E-mail: kimmic16@msu.edu, Homepage: cozymichelle.github.io

EDUCATION

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| Michigan State University , East Lansing, MI, USA
Ph.D in Computer Science and Engineering | Sep. 2020 - |
| Seoul National University , Seoul, Republic of Korea
Completed 20 credits towards M.S./Ph.D in Computer Science and Engineering | Sep. 2017 - Jan. 2019 |
| Yonsei University , Seoul, Republic of Korea
B.S. in Computer Science | Mar. 2015 - Aug. 2017 |
| University of Pennsylvania , Philadelphia, PA
Completed 74 credits towards B.A in Mathematics | Sep. 2009 - May 2013 |

PUBLICATIONS

1. Michelle YoungJin Kim, Junghwan Kim, Kristen Johnson, “Race, Gender, and Age Biases in Biomedical Masked Language Models,” The 61st Annual Meeting of the Association for Computational Linguistics (ACL’23)
2. Junghwan Kim, Michelle YoungJin Kim, Barzan Mozafari, “Provable Memorization Capacity of Transformers,” The Eleventh International Conference on Learning Representations (2023)
3. Michelle YoungJin Kim, Junghwan Kim, Bryan Woosung Kim, Kristen Johnson, Jee-In Kim, “AsdClaims: Twitter Dataset of Claims on Autism Spectrum Disorder,” 1st International Workshop on Big Data Analytics for Health and Medicine (2022)
4. Michelle YoungJin Kim, Kristen Johnson, “CLoSE: Contrastive Learning of Subframe Embeddings for Political Bias Classification of News Media,” The 29th International Conference on Computational Linguistics (COLING-2022)
5. Woojeong Jin, Dongjin Choi, Youngjin Kim, and U Kang, “Activity Prediction from Sensor Data using Convolutional Neural Networks and an Efficient Compression Method,” Journal of KIISE (2018)

PROJECTS

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| Building Lidar-Based Human Detection Technology
<i>Samsung Electronics Co., Ltd.</i> | May 2018 - Sep. 2018
<i>Seoul, Republic of Korea</i> |
| <ul style="list-style-type: none">· Developed a Lidar-sensor environment for data acquisition.· Acquired and extracted data for the experiment, using a Lidar sensor. | |
| Building Energy Optimization Technology
<i>Samsung Electronics Co., Ltd.</i> | Sep. 2017 - Apr. 2018
<i>Seoul, Republic of Korea</i> |

- Developed a model for activity prediction by improving Deep Residual Net.
- Acquired and processed data for the experiment, using temperature, sound and video data.
- Managed the project website that displayed activity prediction in real time.

Parallelization of Laminar-IR

Capstone project at Yonsei University

Sep. 2016 - May 2017

Seoul, Republic of Korea

- Implemented unfolding of stream graphs onto multicore platforms, using double buffering technique and barriers for synchronization.

Recommendation System for the Best-Fit Keyboard Layout Sep. 2016 - Dec. 2016

Class project at Yonsei University

Seoul, Republic of Korea

- Implemented a deep learning model that recommends a mobile keyboard layout.
- Acquired log file data of mobile users.

AWARDS AND HONORS

Samsung Lee Kun-Hee Scholarship, Daewon Foreign Language High School	2008
Michigan State University Fellowship	2020

EXTRACURRICULAR ACTIVITIES

CRA-WP Grad Cohort for Women	2022
Engineering Graduate Leadership Fellows	2023

INTERNSHIPS

MedKit Korea

Summer 2021, Summer 2022

- Collect social media data on autism and build a machine learning model for fact-checking.

TEACHING EXPERIENCE

Teaching Assistant, Introduction to Data Mining

Seoul National University

Spring 2018

Seoul, Republic of Korea

- Taught students during office hours, and made assignments and tests.

Teaching Assistant, After-school computer science program

Geumok Elementary School

Summer 2014

Seoul, Republic of Korea

- Taught basic programming skills with Scratch, a programming software.

Teaching Assistant, SAT academy

IvyPlan

2009-2011

Seoul, Republic of Korea

- Taught SAT Reading, and managed TAs.

English Tutor, Voluntary program

2006-2007

Domestic violence shelter

Seoul, Republic of Korea

- Mentored students, and taught TOEIC and Korean-high-school-level English.

RELEVANT COURSEWORK

Discrete Mathematics	Fall 2015
Deep Learning	Fall 2017
Machine Learning	Fall 2017
Topics in Algorithms (Data Compression)	Spring 2018
Introduction to Computer Vision	Spring 2018
Natural Language Processing	Fall 2020
Numerical Linear Algebra	Spring 2021

TECHNICAL STRENGTHS

Programming Languages	Python, C++, C, Java
Libraries	TensorFlow (Advanced), NumPy, SciPy, Pandas

LANGUAGE SKILLS

Advanced	Korean, English
Intermediate	Spanish