

MICHELLE KIM

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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, Kristen Johnson, “CLOSE: Contrastive Learning of Subframe Embeddings for Political Bias Classification of News Media,” COLING (2022)
2. 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

- | | |
|---|--|
| 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> |
| <ul style="list-style-type: none">· 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
<i>Capstone project at Yonsei University</i> | Sep. 2016 - May 2017
<i>Seoul, Republic of Korea</i> |
| <ul style="list-style-type: none">· 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

INTERNSHIPS

MedKit Korea Summer 2021

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

TEACHING EXPERIENCE

Teaching Assistant, Introduction to Data Mining Spring 2018

Seoul National University

Seoul, Republic of Korea

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

Teaching Assistant, After-school computer science program Summer 2014

Geumok Elementary School

Seoul, Republic of Korea

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

Teaching Assistant, SAT academy

2009-2011

IvyPlan

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