

MICHELLE KIM

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PROFILE

Ph.D student with B.S. in Computer Science, studying Natural Language Processing

EDUCATION

Michigan State University, East Lansing, MI, USA Sep. 2020 -
Ph.D in Computer Science and Engineering

Seoul National University, Seoul, Republic of Korea Sep. 2017 - Jan. 2019
Completed 20 credits towards M.S./Ph.D in Computer Science and Engineering

Yonsei University, Seoul, Republic of Korea Mar. 2015 - Aug. 2017
B.S. in Computer Science

University of Pennsylvania, Philadelphia, PA Sep. 2009 - May 2013
Completed 74 credits towards B.A in Mathematics

PUBLICATIONS

1. 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 May 2018 - Sep. 2018
Samsung Electronics Co., Ltd. *Seoul, Republic of Korea*

- Developed a Lidar-sensor environment for data acquisition.
- Acquired and extracted data for the experiment, using a Lidar sensor.

Building Energy Optimization Technology Sep. 2017 - Apr. 2018
Samsung Electronics Co., Ltd. *Seoul, Republic of Korea*

- 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 Sep. 2016 - May 2017
Capstone project at Yonsei University *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

TEACHING EXPERIENCE

Teaching Assistant, Introduction to Data Mining	Spring 2018
<i>Seoul National University</i>	<i>Seoul, Republic of Korea</i>

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

Teaching Assistant, After-school computer science program	Summer 2014
<i>Geumok Elementary School</i>	<i>Seoul, Republic of Korea</i>

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

Teaching Assistant, SAT academy	2009-2011
<i>IvyPlan</i>	<i>Seoul, Republic of Korea</i>

- Taught SAT Reading, and managed TAs.

English Tutor, Voluntary program	2006-2007
<i>Domestic violence shelter</i>	<i>Seoul, Republic of Korea</i>

- 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	Sprint 2021

TECHNICAL STRENGTHS

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

LANGUAGE SKILLS

Advanced	Korean, English
Intermediate	Spanish