

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

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

TECHNICAL STRENGTHS

Programming Languages

Python, C++, C, Java

Libraries

TensorFlow (Advanced), NumPy, SciPy, Pandas

LANGUAGE SKILLS

Advanced

Korean, English

Intermediate

Spanish