

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. 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> |
| <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
2016
<i>Class project at Yonsei University</i> | Sep. 2016 - Dec.
<i>Seoul, Republic of Korea</i> |

- 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
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TEACHING EXPERIENCE

Teaching Assistant , Introduction to Data Mining <i>Seoul National University</i>	Spring 2018 <i>Seoul, Republic of Korea</i>
Teaching Assistant , After-school computer science program <i>Geumok Elementary School</i>	Summer 2014 <i>Seoul, Republic of Korea</i>
Teaching Assistant , SAT academy <i>IvyPlan</i>	2009-2011 <i>Seoul, Republic of Korea</i>
English Tutor , Voluntary program <i>Domestic violence shelter</i>	2006-2007 <i>Seoul, Republic of Korea</i>

RELEVANT COURSEWORK

Calculus I	Fall 2009
Introductory Statistics	Fall 2009
Calculus II with Probability and Matrices	Spring 2010
Calculus III	Fall 2011
Proving Things: Analysis	Fall 2011
Statistics for Biologists	Fall 2011
Calculus IV	Spring 2012
Proving Things: Algebra	Spring 2012
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

Spanish , DELE Diploma Level B2	2011
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