Mintae Kim

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RESEARCH INTERESTS

Machine Learning, Computer Vision, Robotics, Generative Models, Scene Representation, Motion Planning, Partial Differential Equations

EDUCATION

Mar. 2019 - Feb. 2022 KAIST

Daejeon, Korea

B.S, Industrial and Systems Engineering

- GPA of 3.47 / 4.3
- Individually designed major: Computer Science and Mathematical Science
- I was the only student who complete this degree program within three years
- Full scholarship

Mar. 2016 - Feb. 2019 **Daejeon Dongsin Science High School**

Seoul, Korea

• Summa Cum Laude (Topper in Mathematics, Computer Science and Physics)

RESEARCH EXPERIENCE

Apr. 2022 - Present

Seoul, Korea

- Open Set Anomaly Detection for Action Recognition (with Samsung Display)
- LSTM Encoder-Decoder based Log Anomaly Detection (with Samsung Display)
- Score-based Generative Model for Data Synthetization (Government Project)
- Sensory Data Anomaly Detection via GAN
- Anomaly Detection of Solar Photovoltaic System and Inverter based on VAE

Dec. 2020 – Jun. 2021 MISO Info Lab

Seoul, Korea

- Smart Crosswalk for Traffic Accident Prevention (Computer Vision)
- Real-time Personal Information Blurring in Traffic Video (Government Project)

WORK EXPERIENCE

Mar. 2022 - Present

RIMES Labs

Seoul, Korea

- Co-Founder and CTO
- Machine Learning and Back-end Developer
- Government support program for RIMES Art project (Acceptance rate 3.3%)

Apr. 2022 - Present

Ados

Seoul, Korea

- Senior Researcher
- Machine Learning Team Leader

Dec. 2021 - Mar. 2022 TBUnicorn

Seoul, Korea

Research Intern at Machine Learning Team

Dec. 2020 - Mar. 2021 MISO Technologies Seoul, Korea • Lab Intern at Machine Learning Team Aug. 2019 - Jun. 2022 D&B Edu Consulting Seoul, Korea Co-Founder and CTO Front-end and Back-end Developer **PAPERS** Oct. 2022 **Open Set Action Anomaly Detection** Mintae Kim, Hyeongmin Moon KSII Transactions on Internet and Information Systems (Submitted) Jun. 2022 **Insider Threat Detection through Video and Log Anomaly Detection** Mintae Kim, Hyeongmin Moon, Jake Lee Project paper with Samsung Display Security Department (Censored) Dec. 2021 FoodGAN: Food Image Generation using Deep Convolutional GAN Mintae Kim Final project thesis paper for IE481: Deep Generative Models, Multi Armed Bandit, and Bayesian Optimization class at KAIST INVITED AND CONTRIBUTED TALKS Jun. 2022 **Korea Quantum Computing Corporate Association** Seoul, Korea • Colloquium at Korea Institute of Science and Technology Information Title: Introduction to Quantum Machine Learning Mar. 2020 **Daejeon Dongsin Science High School** Daejeon, Korea Computer Science Seminar for Freshmen Title: Object Detection and Action Recognition **TEACHING** Seoul, Korea Mar. 2022 - Present **Primestone Consulting** Taught Computer Science and Mathematics for IMO and IOI Taught AP Computer Science and Mathematics for ages 16-18 Aug. 2019 - Jun. 2022 **D&B Edu Consulting** Seoul, Korea Taught Computer Science and Mathematics for IMO and IOI Taught Calculus, Differential Equations, Mathematical Statistics and Linear Algebra Taught AP Computer Science and Mathematics for ages 16-18 Dec. 2019 - Feb. 2020 KAIST Daejeon, Korea Teaching Assistant at Korean Mathematical Olympiad Winter School **VOLUNTEER EXPERIENCE RIMES EECS Camp for Gifted Students** Seoul, Korea Mar. 2022 – Present • Topological Data Analysis (Aug. 2022)

Object Detection and Action Recognition (Jul. 2022)
Generative Models and Art Generation (Jun. 2022)
Ordinary Differential Equations (May. 2022)

- Lagrangian Mechanics (Apr. 2022)
- Advanced Python Programming (Mar. 2022)

Sep. 2019 - Sep. 2021 KSCY

Seoul, Korea

- Introduction to Differential Geometry and Topology at Winter Camp 2021
- PDE101: How to Solve Partial Differential Equations at Summer Camp 2021
- Maxwell's Equations and PDEs at Mathematics Session 2020
- Introduction to Motion Planning at Global Science and Engineering Session 2019

Feb. 2020 - Jan. 2020

Community Child Care Center

Daejeon, Korea

- Taught Mathematics for ages 14-16
- · Basketball Team Coach

SKILLS & OTHERS

- Python, Java, C++, PyTorch, Tensorflow, Keras, Linux
- Javascript, HTML, CSS
- Both fluent in English and Korean
- Inaugural Member of Korea Quantum Computing Corporate Association
- Assistant Coach at KAIST Basketball Team