

Mintae Kim

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RESEARCH INTERESTS

Machine Learning, Robotics, Computer Vision, Deep Generative Models,
Stochastic Differential Equations, Mathematical Statistics

EDUCATION

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|-----------------------|---|-----------------------|
| Mar. 2019 - Feb. 2022 | KAIST <i>B.S, Industrial and Systems Engineering</i> <ul style="list-style-type: none">• 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 | Daejeon, Korea |
| Mar. 2016 - Feb. 2019 | Daejeon Dongsin Science High School <ul style="list-style-type: none">• Summa Cum Laude | Seoul, Korea |

RESEARCH EXPERIENCE

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| Apr. 2022 - Present | ADOS <ul style="list-style-type: none">• Mobile Video Networks for Anomaly Detection (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• Open Set Anomaly Detection for Action Recognition | Seoul, Korea |
| Dec. 2020 – Jun. 2021 | MISO Info Lab <ul style="list-style-type: none">• Smart Crosswalk for Traffic Accident Prevention (Computer Vision)• Real-time Personal Information Blurring in Traffic Video (Government Project) | Seoul, Korea |

WORK EXPERIENCE

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| Mar. 2022 - Present | RIMES LABS <ul style="list-style-type: none">• Co-Founder and CTO• Machine Learning and Back-end Developer• Government support program for RIMES ART project (Acceptance rate 3.3%) | Seoul, Korea |
| Apr. 2022 - Present | ADOS <ul style="list-style-type: none">• Senior Researcher• Machine Learning Team Leader | Seoul, Korea |
| Dec. 2021 - Mar. 2022 | TBUicorn <ul style="list-style-type: none">• Research Intern at Machine Learning Team | Seoul, Korea |

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| Dec. 2020 - Mar. 2021 | MISO Technologies <ul style="list-style-type: none"> • Lab Intern at Machine Learning Team | Seoul, Korea |
| Aug. 2019 - Jun. 2022 | D&B Consulting Group <ul style="list-style-type: none"> • Co-Founder and CTO • Front-end and Back-end Developer | Seoul, Korea |

PAPERS

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| Oct. 2022 | Open Set Anomaly Detection for Action Recognition Mintae Kim, Hyeongmin Moon <i>KSII Transactions on Internet and Information Systems (Submitted)</i> | |
| Jun. 2022 | Insider Threat Detection through YOLOv5 Based Recognition System Mintae Kim, Hyeongmin Moon, Jake Lee <i>Project paper with Samsung Display Machine Learning Team (Censored)</i> | |
| Dec. 2021 | FoodGAN: Food Image Generation using Deep Convolutional GAN Mintae Kim <i>Final project thesis paper for IE481: Deep Generative Models, Multi Armed Bandit, and Bayesian Optimization class at KAIST</i> | |

INVITED AND CONTRIBUTED TALKS

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| Jun. 2022 | Korea Quantum Computing Corporate Association <ul style="list-style-type: none"> • Colloquium at Korea Institute of Science and Technology Information • Title: Introduction to Quantum Machine Learning | Seoul, Korea |
| Mar. 2020 | Daejeon Dongsin Science High School <ul style="list-style-type: none"> • Computer Science Seminar for Freshmen • Title: Efficient Object Detection and Action Recognition | Daejeon, Korea |

TEACHING

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|-----------------------|---|-----------------------|
| Mar. 2022 - Present | Primestone Consulting <ul style="list-style-type: none"> • Taught Computer Science and Mathematics for IMO and IOI • Taught AP Computer Science and Mathematics for ages 17-19 | Seoul, Korea |
| Aug. 2019 - Jun. 2022 | D&B Consulting Group <ul style="list-style-type: none"> • Taught Computer Science and Mathematics for IMO and IOI • Taught AP Computer Science and Mathematics for ages 17-19 | Seoul, Korea |
| Dec. 2019 - Feb. 2020 | KAIST <ul style="list-style-type: none"> • Teaching Assistant at Korean Mathematical Olympiad Winter School | Daejeon, Korea |

VOLUNTEER EXPERIENCE

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|-----------------------|---|---------------------|
| Sep. 2019 - Sep. 2021 | KSCY <ul style="list-style-type: none"> • Taught Differential Geometry at KSCY Winter Camp 2021 • Taught Differential Equations at KSCY Summer Camp 2021 • Taught Deep Learning at Global Science and Engineering Session 2019 | Seoul, Korea |
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Feb. 2020 - Jan. 2020 **Community Child Care Center**

Daejeon, Korea

- Taught Mathematics for ages 14-17
- 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