

Joel Jang

(+82) 010-3976-3907 | wkddydpf@gmail.com | wkddydpf.github.io

EDUCATION

Korea University
Bachelor of Computer Science and Engineering
GPA: 3.75/4.5 (91.4/100) / Major GPA: 4.03/4.5

Seoul, Korea
March 2017 – Present (*February 2021*)

RESEARCH/WORK EXPERIENCE

NAVER CORP. | Media Tech Group

Summer Intern

Seongnam-si, Korea
July 2020 – September 2020

Improving current hate speech comment detection model (AI Clean Bot 2.0)
Developed novel incremental learning method to solve the data imbalance problem (*paper under review*)
Implementing SOTA research on multitask learning, semi-supervised learning and online learning on real application

Natural Language Processing & Artificial Intelligence Lab | Korea University

Undergraduate Research Intern

Seoul, Korea
March 2020 – July 2020

Basic NLP Research including Machine Reading Comprehension, Open-Domain Question and Answering, Natural Questions, and Language Models. Placed 4th place in NLP Competition.

Korea Institute of Science and Technology European Research Centre

Research Intern / Smart Convergence Group

Saarbrücken, Germany
August 2019 – January 2020

Implemented deep learning models for motor fault diagnosis and prognosis
Developed early fault detection model using convolution neural networks and data wrangling method

Blockchain Security Research Center | Korea University

Undergraduate Research Intern

Seoul, Korea
March 2019 – June 2019

Basic research foundations of blockchain technology and potential security vulnerabilities

Artificial Intelligence Research Lab | Korea University

Winter Research Intern

Seoul, Korea
December 2018 – February 2019

Implemented multiple-GPU parallel model training algorithm (Features Replay Algorithm) using CUDA programming

PUBLICATIONS

Joel Jang, Yoonjeon Kim, Kyoungcho Choi, Sungho Suh, Sequential Targeting: An Incremental Learning Approach for Data Imbalance in Text Classification. *Submitted to Expert Systems with Applications. (under review)*

Yong Oh Lee, **Joel Jang**, Sungho Suh, Diagnosis of bearing wear state and prediction of remaining useful lifetime using nested scatter plot. PHM KOREA 2020. (*short paper*)

Sungho Suh, **Joel Jang**, Seungjae Won, Mayank S. Jha, Yong Oh Lee (2020), Supervised Health Stage Prediction Using Convolution Neural Networks for Bearing Wear. *Sensors*, 20(20), 5846.

AWARDS AND SCHOLARSHIPS AND CERTIFICATES

Best Innovation Award, Intel AI Drone Hackathon, 2018
Future Global Leader Scholarships, Korea University, 2019
Korea Student Aid Foundation, Samsung Scholarship, 2019
Promising Start-up Team Award, K-Startup Grand Challenge, 2019
3rd place, HAAFOR Challenge 2019
4th place, AI NLP Challenge Eniple Cup, 2020

CERTIFICATES

GRE: 326 (Verbal, 157/170, 76th Percentile) | Quant, 169/170, 95th Percentile | AW, 5.0/6.0, 92nd Percentile)
TOEFL: 119/120 (Reading, 30 | Listening, 30 | Speaking, 29 | Writing, 30)
SAT: 1530/1600 (Reading and Writing, 730 | Math, 800)

TECHNICAL STRENGTHS

Programming Languages
Programming Libraries

Python, Java, Html, CSS, Javascript, React, Linux
Tensorflow, Pytorch, Pandas, Sklearn, CUDA, Spark, Hadoop

LANGUAGES

Bilingual in English (*native, 12 years living in US, 2004-2016*) and Korean (*native*)
Conversational in Chinese

REFERENCES

Dr. Yong Oh Lee
Senior Researcher, Group Leader
Smart Convergence Group, Korea Institute of Science and
Technology
KIST Europe Forschungsgesellschaft mbH Campus E 7.2
666123 Saarbrücken, Germany
Email: yongoh.lee@kist-europe.de