

Kyuwook Chai

Graduate School of Data Science, Seoul National University
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RESEARCH INTERESTS

Data driven decision making, decision making under uncertainty, data management, machine learning & deep learning, reinforcement learning, technology & innovation

EDUCATION

Seoul National University, Seoul, South Korea Mar. 2020 - Present
M.S. student in Data Science
Advisor: Sang Kyun Cha
Student vice-president for Mar. 2020- Feb. 2021

Seoul National University, Seoul, South Korea 2012
B.S in Physic & Statistics (Double Major)
Cum Laude (Department Rank: 2/23)

RESEARCH & PROJECTS

1. **Kyuwook Chai**. Seoul Air Quality Prediction, *Project for Master Qualifying Exam*, 2021.
Awarded as Top 3 Presentations
2. Steven Song, Sungboon Yoon, **Kyuwook Chai**. Meta-GAN: Mobile Adaptaion of Few-Shot Generative Adversarial Networks, *Final Project for Machine Learning for Visual Understanding (M3224.000100)*, 2021.
3. **Kyuwook Chai**, Jaewon Chang, Jaehwan Lim, Taehyun Hwang, Jinwon Park. A Survey on Contextual Bandits, *Final Report for Special Topics in Data Science(Reinforcement Learning) (M3239.002300)*, 2020.
4. Keondo Park, Wonyoung Jang, Woonchul Lee, Kisung Nam, Kihong Seong, **Kyuwook Chai**, Wen-Syan Li. Real-time Mask Detection on Google Edge TPU, *ArXiv:2010.04427*, 2020.

TEACHING EXPERIENCE

Seoul National University, Seoul, South Korea
Teaching Assistant

Big Data, AI, and Innovation IV (SNU Data Science Seminar)	Fall 2021
Big Data, AI, and Innovation III (SNU Data Science Seminar)	Spring 2021
Data Science Bootcamp–Bigdata	Winter 2021
Data Science Bootcamp–Math for Data Science	Winter 2021

GRANTS, AWARDS & SCHOLARSHIPS

Department Scholarship Fall 2021
Graduate School of Data Science, Seoul National University

National Science and Engineering Undergraduate Scholarship 2006 - 2011
Korea Student Aid Foundation (KOSAF)
Full-tuition for eight semesters of undergraduate study.

PROGRAMMING & SKILLS

Language: Python, R, C, Prolog, SQL, Cypher, Javascript, HTML, CSS**Tools:** TensorFlow, Torch, AWS, PostgreSQL, Neo4j, ReactMEMBERSHIP

The Korean Patent Attorneys Association (KPPA)

The Korean Statistical Society (KSS)

EMPLOYMENTS

Haean Patent & Law Firm, Seoul, South Korea 2019 - Present***Patent Attorney, Partner***

Patent strategy consulting for small and medium-sized enterprises. Technology valuation reports for credit rating agencies. Government projects for protecting Korean IP in foreign countries.

Daram Intellectual Property Law, Seoul, South Korea 2018 - 2019***Patent Attorney***

Patent prosecution. Technology reports for research institutes.

FirstLaw P.C., Seoul, South Korea 2015 - 2016***Patent Attorney***

Patent prosecution for Korean and Japanese clients applying to the US or Europe. Design rights prosecution and litigation.

YOU ME Patent & Law Firm, Seoul, South Korea 2014 - 2015***Patent Attorney, Trainee***

Trademark investigation and prosecution. Domain name dispute resolution. Design rights prosecution.

OTHER EXPERIENCE

Freelance Science Class Instructor, Seoul, South Korea 2017 - 2018

Coaching advanced middle school students preparing Physics Olympiad.

Preparation for the Korean Patent Bar Examination, Seoul, South Korea 2012 - 2013

*1st Qualifying Exam: Civil Law, Intellectual Property Law, Natural Science**2nd Qualifying Exam: Civil Procedure Law, Patent Law, Trademark Law, Electromagnetism*26th Mechanized Infantry Division of ROK, Yangju, South Korea 2009 - 2011*Military Service as an Administrative Specialist*