

# Kyuwook Chai

Graduate School of Data Science, Seoul National University  
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## RESEARCH INTERESTS

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

## EDUCATION

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**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

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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, Jeahwan 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

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**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

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**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

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

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The Korean Patent Attorneys Association (KPPA)

The Korean Statistical Society (KSS)

EMPLOYMENTS

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**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

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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

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