

# Kyuwook Chai

Graduate School of Data Science, Seoul National University  
1 Gwanak-ro, Gwanak-gu, Seoul, South Korea, 08826  
kwchai@snu.ac.kr — www.kyuwookchai.com

## RESEARCH INTERESTS

---

Data integration, data driven decision making, decision making under uncertainty, reinforcement learning & bandits, machine learning & deep 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 during 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

---

### Reinforcement Learning & Bandits

Taehyun Hwang, **Kyuwook Chai**, Min-hwan Oh. Combinatorial Neural Bandits, *ArXiv:-.*, 2021.

**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.

### Deep Learning

**Kyuwook Chai**. Seoul Air Quality Prediction, *Project for Master Qualifying Exam*, 2021.  
*Awarded as Top 3 Presentations*

Steven Song, Sungboo Yoon, **Kyuwook Chai**. Meta-GAN: Mobile Adaptaion of Few-Shot Generative Adversarial Networks, *Final Project for Machine Learning for Visual Understanding (M3224.000100)*, 2021.

Keondo Park, Wonyoung Jang, Woochul 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

---

<b>Department Scholarship</b> <i>Graduate School of Data Science, Seoul National University</i>	Fall 2021
<b>National Science and Engineering Undergraduate Scholarship</b> <i>Korea Student Aid Foundation (KOSAF)</i> Full-tuition for eight semesters of undergraduate study.	2006 - 2011

PROGRAMMING & SKILLS

---

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

---

The Korean Patent Attorneys Association (KPPA)

The Korean Statistical Society (KSS)

EMPLOYMENTS

---

**Haeon 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, Associate***

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, Associate***

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

OTHER EXPERIENCE

---

**Aircolor (Startup), Seoul, South Korea** 2016 - 2018***Founder. Worldwide air quality monitoring application.***

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

***1<sup>st</sup> Qualifying Exam: Civil Law, Industrial 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***