

# Kyu Soon Kim

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## Education

### Seoul National University

*Ph.D. Student, Statistics*

Seoul, Korea  
Sep 2020 - current

*B.S., Statistics*

Mar 2014 - Feb 2020

- Overall GPA : 3.98 / 4.3, Major GPA : 4.10 / 4.3
- Relevant Coursework : Regression Analysis, Computational Statistics, Time Series Analysis, Nonparametric Statistics

### Queen Mary University of London

*Summer school student*

London, England  
Jul 2019 - Aug 2019

- Course : Practical Machine Learning
- Mark : 90.9 / 100, Grade : A

### Gyeonggi Science High School

- Specialized high school for students talented in math and science

Suwon, Korea  
Feb 2011 - Feb 2014

## Experience & Activities

### Undergraduate Research Internship Program (Advisor : Jae-yong Lee)

Sep 2019 - Feb 2020

- Implemented two methods of estimating a covariance matrix using the reference prior and Jeffreys prior in R
- Applied a bayesian deep learning model to the image retrieval data

### R.O.K Armed Forces

*Sergeant*

Seongnam, Korea  
Jul 2017 - Apr 2019

- Served in fulfillment of the mandatory military service duty for Republic of Korea citizens.
- Created and improved auto-processing software for data processing using Python.

### Acoustic Guitar Club

*Mentor*

Jun 2014 - current

- Taught students to reach a level of proficiency to perform on stage.

### Independent Research

Mar - Jun 2017

*Time series analysis with car accident data*

- Implemented and developed a time series model for monthly car accidents using statistical analysis software SAS.

### Personal Tutor

Feb 2014 - Feb 2017

- Taught mathematics and physics to middle school, high school and university students.

### DreamCamp Mentoring

Jul 2015

- Mentored high school students in rural area in finding and pursuing their dreams.

### Research and Education Program (Advisor : Joong Seob Lee)

Feb 2012 - Dec 2013

- Researched the two primary methods, substitution and cut-projection, to create quasicrystals.
- Drew the mathematical equivalence between two methods, which enabled handling of quasicrystals mathematically.

## Awards

### Naver AI Vision Hackathon 2018

Dec 2018 - Feb 2020

*Image retrieval challenge using a large dataset*

- Placed within the top 30 teams.
- Implemented an image retrieval model by applying transfer learning on a pre-trained CNN with Keras.

**Ministry of Defence Start-up Challenge 2018**

Jun - Sep 2018

*Army Chief of Staff Award*

- Developed a diary app for self-management by researching state-of-the-art NLP techniques including Deep Learning.
- Advanced to K-Startup Challenge 2018

**College of Natural Sciences, SNU**

Jun 2014 - Dec 2017

*Dean's list*

- 2014 1st semester, 2014 2nd semester, 2015 1st semester, 2016 2nd semester, 2017 1st semester

**Collegiate Mathematics Competition**

Nov 2014

*Bronze medal***Korean Mathematical Olympiad**

Aug 2012

*Silver medal*

- Placed within the top 50 candidates for the International Mathematical Olympiad.

**Skills**

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**Programming Languages :** Python, C, R, Java, SAS**Machine Learning Frameworks :** Tensorflow, Keras**Statistical Analysis :** Time Series Analysis, Regression Analysis,  
Discrete Data Analysis, Nonparametric/Parametric Estimation