

BONGSOO YI

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RESEARCH INTEREST

High-dimensional Statistics, Nonparametric Statistics, Statistical Machine Learning, Bayesian Statistics

EDUCATION

Seoul National University (SNU) Mar. 2018 - Present
The integrated MS/Ph.D. Course of Science in Statistics; GPA: 4.00/4.30 Seoul, Korea

Passed the Ph.D. qualifying exams (Theory of Statistics, Applied Statistics, Probability Theory)
Left for 2 years due to mandatory military service after one semester (Jul. 2018 - May. 2020 expected)

Seoul National University (SNU) Mar. 2014 - Feb. 2018
Bachelor of Science in Statistics; Class Rank: 3/31 (GPA: 3.86/4.30, Major GPA: 3.88/4.30) Seoul, Korea

Sejong Science High School (SSHS) Mar. 2012 - Feb. 2014
1 year early graduation; Specialized high school for gifted students in mathematics and science Seoul, Korea

RESEARCH EXPERIENCE

Nonparametric Function Estimation Laboratory, SNU Dec. 2017 - Jun. 2018
Research Intern (Advisor: Prof. Byeong U. Park)

- Studied nonparametric regression(local polynomial regression, kernel and spline smoothing) and wavelet
- Studied Nadaraya-Watson smooth backfitting method and proved the convergence of the algorithm
- Participated in 2018 SNU International Statistics Workshop

Bayesian Statistics Laboratory, SNU Jun. 2017 - Aug. 2017, Jun. 2019 - Jul. 2019
Research Intern (Advisor: Prof. Jaeyong Lee)

- Forecast the fine dust concentration in Seoul using dynamic linear models and state space models
- Analyzed the causal relationship between mental illness and crime using Markov equivalence class of DAGs
- Participated in a lab seminar on “Bayesian Deep Learning with R”

IDEA Laboratory, SNU Jul. 2017 - Dec. 2017
Research Intern (Advisor: Prof. Yongdai Kim)

- Participated in a 5 month lab seminar on “Deep Learning Architectures”
- Studied Natural Language Processing(NLP) with Deep Learning and life-long one-shot learning in recurrent neural networks on a large-scale machine translation task

AWARDS & HONORS

Dean's List, College of Natural Sciences, SNU 2017
• An honor for students who showed top academic performance

National Scholarship for Science and Engineering, Korea Student Aid Foundation 2016 - 2017
• Full tuition for 2 years who showed top academic performance in the first and second years of university

Full Merit Scholarship, SNU 2014 - 2015
• Full tuition for students with top academic scores in the semester

36th National Undergraduate Mathematics Competition, Korean Mathematical Society Nov. 2017
• Bronze Medal (Field 1: For mathematical majors)

2019 International Quant Championship, WorldQuant	<i>Mar. 2019 - Jul. 2019</i>
<ul style="list-style-type: none"> • Reached Stage 2 National Finals with excellent performances • Received an offer from the WorldQuant Virtual Research Center for the Research Consultant Position 	
15th SAS Analysis Championship, SAS Korea	<i>Jun. 2017 - Aug. 2017</i>
<ul style="list-style-type: none"> • Top 13 finalist among over 300 teams • Topic: Personalized Video Content Recommendation Analysis based on Mobile Behavior 	
SCSC Academic Scholarship, Samsung Convergence Software Course	<i>Aug. 2017</i>
23rd Seoul Mathematical Olympiad, Seoul Metropolitan Office of Education	<i>Jun. 2011</i>
<ul style="list-style-type: none"> • Grand prize (1st place) 	

TEACHING EXPERIENCE

003.019: Statistics, Teaching Assistant, Department of Statistics, SNU	<i>Spring 2018</i>
<ul style="list-style-type: none"> • Ran office hours for over 80 students every week • Helped write assignments and exams, and marked them • Assisted students individually with homework problems and materials they found difficult to understand 	
003.016: Basic Calculus 1, Instructor, Department of Mathematical Science, SNU	<i>Spring 2017</i>
<ul style="list-style-type: none"> • Instructed and supervised students in the fundamental concepts of calculus • Assisted students by answering all the questions in person and online 	
Personal Tutor for middle school, high school and university students	<i>Dec 2013 - Present</i>
<ul style="list-style-type: none"> • Mathematics (Calculus; Linear Algebra; Differential Equations; Number Theory) • Statistics (Mathematical Statistics; Regression Analysis) • Programming (Python; Java) and Computer Science (Algorithm; Data Structure) 	

EXTRACURRICULAR ACTIVITIES

Social Service Agent, Songpa District Office	<i>Jul. 2018 - May. 2020 expected</i>
<ul style="list-style-type: none"> • Worked in public service as an alternative to mandatory military service 	
Class President, SNU	<i>2014</i>
<ul style="list-style-type: none"> • Represented the class of 14 	
Camp for Young Engineering Frontiers, College of Engineering, SNU	<i>2014 - 2016</i>
<ul style="list-style-type: none"> • Created academic and recreational programs as a camp staff throughout 5 camp sessions • Served as an academic mentor for a group of 5 high school students each session 	
Seoul National University Engineering Magazine, College of Engineering, SNU	<i>2014 - 2016</i>
<ul style="list-style-type: none"> • Wrote and edited articles related to mathematics so that they could be catered to high school students • Worked as an executive in 2015 	

SKILLS & ADDITIONAL INFORMATION

Programming Languages	R, Python, Java, SAS, C, \LaTeX
Languages	Korean (native), English (fluent, TOEFL MyBest Scores: 110/120)
International experience	Attended kindergarten and elementary school for 3 years in Utah and Oregon, USA. Visited Stanford, Caltech and UCLA for science and engineering experiences in overseas as a student of science high school.