

Youngseo Cho

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Interests	Nonparametric Functional Estimation, High Dimensional Analysis, Social Statistics, Theory of Statistics, Statistical Experiments	
Education	BS in Statistics, Seoul National University (SNU)	<i>Seoul, Republic of Korea</i>
	Graduate-level Core Courses:	<i>Mar 2015 - Feb 2021</i>
	<i>Theory of Statistics, Numerical Analysis, Complex Analysis, Statistical Deep Learning, Partial Differential Equations, Nonparametric Statistics</i>	
	21 Months Military Leave of Absence	GPA: 3.88/4.3, Major GPA : 3.99/4.3
	<i>Advisor: Byeong U. Park and Myunghee Cho Paik</i>	
	Institut d'études politiques de Paris (Exchange Program)	<i>Paris, France</i>
	Study Abroad Program in Political Science domain	<i>Jan 2019 - Aug 2019</i>
	Korea Science Academy of KAIST (High School)	<i>Busan, Republic of Korea</i>
	Specialized in Integration on Complex Geometry	<i>Mar 2012 - Feb 2015</i>
	<i>Advisor: Jeehoon Park</i>	
Work Experience	VT TOUCH INC.	<i>Oct 2022 - Present</i>
	Machine Learning Researcher and Project Manager	
	Samsung Electronics	<i>Feb 2021 - May 2022</i>
	Evaluation & Analysis Engineer	
	NUUA INC.	<i>Dec 2019 - Feb 2020</i>
	Researcher/Data Team Intern	
Research Experience	Project Manager, VT TOUCH INC, National Project	<i>Oct 2022 - Present</i>
	<i>Advisor : Jinhee Na, External Advisor : Hyung Jin Chang</i>	
	<ul style="list-style-type: none">• Led the development of an Automatic Diagnostic Machine for Parkinsonian Bradykinesia, in collaboration with Hallym Sacred Heart Hospital.	
	<ul style="list-style-type: none">• Propose features by deep-learning and numerical analysis. Significance of these features are tested by partially linear additive model. Constructed diagnostic machine achieved state-of-the-art accuracy (0.803).	
	Researcher, Samsung Electronics	<i>Mar 2021 - May 2022</i>
	<i>Advisor: Walter Jun</i>	
	<ul style="list-style-type: none">• Developed a Statistical Experimental Algorithm at Samsung for SSD Performance Evaluation	
	<ul style="list-style-type: none">• Quantification of various environmental test results using a Bayesian Regression Model, enabling automation and deeper analysis of the experiments.	
	Undergraduate Research Assistant	<i>April 2020 - Oct 2020</i>
	<i>SNU Bioinformatics and Biostatistics Laboratory</i>	
	<i>Advisor: Taesung Park</i>	
	<ul style="list-style-type: none">• Implemented Mixed Effects Models and Meta-Analysis on diverse clinical data, encompassing data cleansing, collection, and management of missing data.	
	Undergraduate Research Intern	<i>June 2020 - Aug 2020</i>
	<i>SNU Nonparametric Inference Laboratory</i>	
	<i>Advisor: Byeong U. Park</i>	
	<ul style="list-style-type: none">• Participated in a weekly seminar focused on the Additive Regression Model Rate of Convergence. Conducted a nonparametric analysis of COVID-19 data and presented the findings.	

Publication	[1] Youngseo Cho , Inhee Kwak, Dohyeon Kim, Jinhee Na, Hanjoo Sung, Jeongjae Lee, Hyeo-il Ma and Youngeun Kim, “ <i>Statistical Analysis by Semiparametric Additive Regression and LSTM-FCN Based Hierarchical Classification for Computer Vision Quantification of Parkinsonian Bradykinesia</i> ”, under peer-review for submission at <i>npj Parkinson’s Disease</i>	
	[2] Youngseo Cho , Jaehee Kwak, and Deokjin Seo, “ <i>The Realization of Text Summarizer Based on Graphical Deep Learning Knowledge</i> ”, <i>Working Paper</i>	
	[3] Seoyoung Lee, Iksoo Huh, Seunghee Kang , Yea-Eun Nam, Youngseo Cho , Md Kamruzzaman, Jina Hong , Oran Kwon and Taesung Park, “ <i>Meta-Analysis of Randomized Clinical Trials Evaluating Effectiveness of a Multivitamin Supplementation against Oxidative Stress in Healthy Subjects</i> ”, <i>MDPI Nutrients</i> ; 14 (6): 1170	
Honors and Awards	Samsung Proposal Award	Dec 2021
	<i>Samsung Electronics, Memory Business Department</i>	<i>Gyeonggi-do, South Korea</i>
	Silver Prize, Korea Undergraduate Mathematics Competition for Mathematics Major	Dec 2020
	<i>The Korean Mathematical Society</i>	<i>Seoul, South Korea</i>
	Silver Prize, Korea Undergraduate Mathematics Competition	Dec 2019
	<i>The Korean Mathematical Society</i>	<i>Seoul, South Korea</i>
	Dean’s List	Spring 2016
	<i>Seoul National University College of Natural Science</i>	<i>Seoul, South Korea</i>
Teaching Experience	Bronze Medal, Korea Mathematical Olympiad	Aug 2013
	<i>The Korean Mathematical Society</i>	<i>Seoul, South Korea</i>
	SNU Development Fund Scholarship	Mar 2020 - Dec 2020
	<i>Seoul National University</i>	<i>Seoul, South Korea</i>
	Study Abroad Scholarship	Spring 2019
	<i>Seoul National University</i>	<i>Seoul, South Korea</i>
Technical Skills	Samsung Seminar Instructor	Feb 2022 - Apr 2022
	<i>Samsung Electronics, Memory Business Department</i>	<i>Gyeonggi-do, South Korea</i>
	Seminar tutor on Statistical Learning Topics for the Samsung Application Engineering team members.	
	Volunteer Mentor	Aug 2015 - Jul 2016
Languages	<i>Seoul National University College of Natural Science</i>	<i>Seoul, South Korea</i>
	Participated in a mathematics mentoring program for high school students from low-income families.	
Extracurricular Activities	R, Python, C, C++, Java, Matlab	
	English/French Fluent, Korean Native	
	KBI Boxing Champion, Amateur Boxer	Summer 2018 - Present
	Amateur Go Player, 5 dan	
	Swimming tutor for people with visual impairment	Jan 2022 - Jul 2022
	Organizer, Korean/French Cultural Exchange at Paris	Feb 2019 - Aug 2019