

Joonho Bae

lifefor1@kaist.ac.kr bae.jh0817@gmail.com

Room 4217, E2-1, 291, Daehak-ro, Yuseong-gu, Daejeon, Republic of Korea

EDUCATION	Korea Advanced Institute of Science and Technology <i>M.S. Candidate in Industrial & Systems Engineering</i>	2017 - Present
	Seoul National University <i>Bachelor of Science in Statistics, Minor in Financial Economics</i>	2009 - 2016
RESEARCH INTERESTS	Methodology Statistical Machine Learning, Stochastic Processes Nonparametric regression, Dynamic Tensor analysis, Change-point Detection	
	Domain Mobile Application Usage Modelling, Leisure Activity Modelling, Anomaly Detection in Sensor Data	
PUBLICATION	[1] (Submitted) Bae, J. , Park, J., Choi, J. Nonparametric Bayesian Dynamic Tensor Factorization.	
	[2] (Submitted) Frequency-based Anomaly Detection via Multi-output Log Gaussian Cox Process	
	[3] (Submitted) Detecting a Change in Relationship Status using Smartphone: From a Single to a Couple	
CONFERENCE PRESENTATIONS	[1] The Recommender System for Mobile Apps, <i>2018 Global Marketing Conference</i> , Tokyo, Japan.	
	[2] Frequency-based Anomaly Detection via Multi-output Log Gaussian Cox Process, <i>2018 Stochastic Processes and their Applications</i> , Gothenburg, Sweden.	
	[3] Detecting a Change in Relationship Status using Smartphone: From a Single to a Couple, <i>INFORMS Annual Meeting 2018</i> , Phoenix, AZ.	
	[4] Frequency-based Anomaly Detection via Multi-output Log Gaussian Cox Process, <i>INFORMS Annual Meeting 2018</i> , Phoenix, AZ.	
WORK EXPERIENCE	SK TELECOM <i>Marketing Manager</i> Managed 58 retail stores (T store) Launched/Closed stores based on the feasibility studies Optimized mobile phone inventories and elevated financial soundness Constructed computer system of distributing inventories	2015 - 2017
	CHAM SON GIL Cooperative <i>Founding Member, Project Manager</i> Established a healing center for the blind masseurs (www.chamsongil.com) Developed B2B/B2C services & products Achieved more than \$100,000 sales revenue on 2014 Ensured average salary of \$3,000 per month for 12 masseurs	2013 - 2014

	Department of Statistics, Seoul National University <i>Research Intern</i> Developed/Revised KESS (Korean Educational Statistics Software : Excel VBA software) Advisor : Professor Sinsup Cho	2012 - 2013
	HHC, 8th U.S.ARMY <i>Sergeant</i> Served in the military as a KATUSA (Korean Augmentation To the United States Army)	2010 - 2012
AWARDS& HONORS	KOSAF FELLOWSHIP National Scholarship For Science & Engineering, KOSAF	2009 - 2014
	SOCIAL VENTURE IDEA Ministry of Employment & Labor, Republic of Korea	2014
	SK SOCIAL ENTERPRISE SK Happiness Foundation	2013
	ARMY COMMENDATION MEDAL 8th U.S.ARMY	2012
RESEARCH PROJECTS	SAMSUNG HEAVY INDUSTRIES Dynamic modeling smart ship system based on sensor data	2018 - Present
	TNS GLOBAL Modeling mobile app usage based on log data	2017 - Present
TEACHING EXPERIENCE	IE 241 Engineering Statistics 1 Lecturer of two discussion sessions	2018 Spring
LANGUAGES	Korean : Native English : Advanced Programming Language : Python, C, Matlab Statistical Softwares : R, SAS, Excel VBA	

COURSES

2017 Spring

IE 632 : Stochastic Modeling I
IE 661 : Applications of AI/Data Mining Technology
EE 531 : Statistical Learning Theory

2017 Fall

IE 539 : Convex Optimization
EE 827 : Bayesian Estimation and its application
EE 837 : Deep Learning for Computer Vision

2018 Spring

IE 801 : Game Theory with Engineering Applications
EE 807 : Mathematical Foundation of Reinforcement Learning

2018 Fall

IE 671 : Stochastic Modeling II