

# Joonho Bae

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<b>EDUCATION</b>	Korea Advanced Institute of Science and Technology <i>M.S. Candidate in Industrial &amp; Systems Engineering</i>	2017 - Present
	Seoul National University <i>Bachelor of Science in Statistics, Minor in Financial Economics</i>	2009 - 2016
<b>RESEARCH INTERESTS</b>	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	
<b>PUBLICATION</b>	[1] (Submitted) <b>Bae, J.</b> , 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	
<b>CONFERENCE PRESENTATIONS</b>	[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.	
<b>WORK EXPERIENCE</b>	SK TELECOM <i>Marketing Manager</i> Managed retail stores	2016 - 2017
	SK TELECOM <i>Marketing Intern</i> Revised manual	2015
	CHAM SON GIL Cooperative <i>Project Manager</i> B2B / B2C strategies	2013 - 2014

	Department of Statistics, Seoul National University <i>Research Intern</i> Developing/Revising KESS (Korean Educational Statistics Software : Excel VBA software) Advisor : Professor Sinsup Cho	2012 - 2013
	HHC, 8th U.S.ARMY <i>Sergeant</i> Serviced in military	2010 - 2012
<b>AWARDS&amp; HONORS</b>	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
<b>RESEARCH PROJECTS</b>	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
<b>TEACHING EXPERIENCE</b>	IE 241 Engineering Statistics 1 Lecturer of two discussion sessions	2018 Spring
<b>LANGUAGES</b>	Korean : Native English : Advanced Programming Language : Python, C, Matlab Statistical Softwares : R, SAS, Excel VBA	
<b>COURSES</b>	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	