

## Chanmin Kim

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CONTACT INFORMATION	25-2, Sungkyunkwan-ro, Jongno-gu Seoul 03063, Korea	02-760-0495 chanmin.kim@skku.edu
RESEARCH INTERESTS	Bayesian nonparametric methods and Machine learning Causal inference and Causal mechanism Policy Evaluation, Environmental statistics, and behavioral sciences Bayesian methodologies	
CURRENT POSITION	<b>SungKyunKwan University</b> , Department of Statistics, Seoul, Korea <b>Associate Professor</b> of Statistics (tenured), Sep 2023 - Current <b>Director</b> of Research Institute of Applied Statistics, Mar 2024 - Current <b>Assistant Professor</b> of Statistics, Jan 2020 - Aug 2023	
EDUCATION / TRAINING	<b>Harvard University</b> , Department of Biostatistics, Boston, MA Research Associate & Postdoctoral Research Fellow July 2014 - Aug 2017 Project: <i>Developing Bayesian causal inference methods for evaluating air pollution regulatory policies.</i> Mentor: Corwin M. Zigler, Ph.D.  <b>University of Florida</b> , Gainesville, FL Ph.D., Statistics Aug 2013 Thesis: <i>Bayesian methods for inference on the causal effects of mediation.</i> Advisor: Michael J. Daniels, Sc.D.  <b>Columbia University in the City of New York</b> , New York, NY M.A., Statistics May 2008  <b>Sogang University</b> , Seoul, Korea B.B.A., B.A., <b>Business and History</b> (Double Major) Feb 2006 <i>Magna Cum Laude</i> the second highest GPA in the department.	
RESEARCH AND PROFESSIONAL EXPERIENCE	Assistant Professor Sep 2017 - Dec 2019 Department of Biostatistics, Boston University, Boston, MA  Adjunct Assistant Professor Jan 2020 - Jun 2023 Department of Biostatistics, Boston University, Boston, MA  Advisory Committee Jul 2023 - Oct 2023 Korea Internet & Security Agency (KISA), Naju, Korea  Advisory Committee Nov 2020 - Feb 2021 Hyundai Motor Group, Seoul, Korea  Postdoctoral Research Fellow Aug 2013 - Jul 2014 Department of Integrative Biology, The University of Texas, Austin - Developed Bayesian nonparametric methods for causal mediation in various settings (single, multiple, or longitudinal mediators). Mentor: Michael J. Daniels, Sc.D.  Research Assistant Jan 2010 - Jul 2013 Department of Statistics, University of Florida - Causal mediation analysis in the TOURS project (weight management trial) and	

the Rural LITE project.  
 Supervisor: Michael J. Daniels, Sc.D.

Research Assistant	Jan 2007 - Dec 2007
Applied Statistics Center, Columbia University	
Supervisor: Andrew Gelman, Ph.D.	
Employee, Samsung Electronics, South Korea	Jan 2006 - May 2006
- Worked at the HR headquarters of the Tele-Communication Business Division which is in charge of Samsung's cell phone business.	
Internship, Bearing Point Consulting formerly KPMG Korea	Jul 2004 - Aug 2004
- As a member of PMO, evaluated daily outputs for a project to construct a new banking system for Korean Exchange Bank (KBE). Worked with 600 IT experts.	

## AWARDS

### HONORS

SKKU Research Excellence (sin-poom),	2024
SKKU Teaching Excellence (myo-poom/sin-poom/sin-poom),	2022, 2023, 2024
Mitchell Prize, honorable mention (2nd place), ISBA	Jun 2020
- The Mitchell Prize is awarded in recognition of an "outstanding paper" that describes how a Bayesian analysis has solved an important applied problem. The Prize is jointly sponsored by the Section on Bayesian Statistical Science (SBSS) of the ASA, the International Society for Bayesian Analysis (ISBA), and the Mitchell Prize Founders' Committee.	
ASA Biometrics Section Paper Award	Aug 2017
- Invited to present the paper at the 2017 JSM	
Winner (1st place), 2013 IASC data analysis competition	Aug 2013
- Invited to present the result at the joint meeting of the IASC Satellite Conference for the 59th ISI WSC and the 8th Conference of the Asian regional section of the IASC, Seoul, Korea (22-23 August 2013)	
Honorable Mention, NSF research day poster competition, UF	Oct 2011
3rd Place, Human Consulting Group case competition, NEMO Partners, South Korea	May 2003

### TRAVEL AWARDS

Sackler Travel Award (granted by NSF) for the Sackler Colloquium Drawing Causal Inference from Big Data, D.C.	Mar 2015
Graduate Student Council (GSC) at UF for 2013 Atlantic Causal Inference Conference, Boston, MA	May 2013
College of Liberal Arts and Sciences (CLAS) at UF for 2013 Atlantic Causal Inference Conference, Boston, MA	May 2013
Boyd Harshbarger Travel Award (granted by NSF) for SRCOS 2012 Summer Research Conference, GA	Jun 2012
College of Liberal Arts and Sciences (CLAS) at UF for 2012 Atlantic Causal Inference Conference, Baltimore, MD	May 2012

Centre de recherches mathématiques (CRM) at University of Montreal    May 2011  
for Workshop on Causal Inference in Health Research, Canada

Graduate Student Council (GSC) at UF    May 2011  
for Workshop on Causal Inference in Health Research, Canada

REFEREED  
JOURNAL  
PUBLICATIONS

**Publication in Statistical Methodology** (<sup>†</sup> denotes student mentee)

Yoo, Y.<sup>†</sup>, **Kim, C.**, bartcs: Bayesian Additive Regression Trees for Confounder Selection in R, to appear in *R journal*.

Park, J.<sup>†</sup>, **Kim, C.**, Bayesian MINBM: Addressing Multiple Inflated Values in Discrete Data, to appear in *Communications for Statistical Applications and Methods*, 2025+

**Kim, C.**, Zigler, C., Bayesian nonparametric trees for principal causal effects, to appear in *Biometrics*, 81(1), 2025.

**Kim, C.**, Li, Y., Xu, T., Liao, Z., Bayesian nonparametric model for heterogeneous treatment effects with zero-inflated data, *Statistics in Medicine*, 43(30), 5968-5982, 2024.

Seo, J.<sup>†</sup>, **Kim, C.**, Utilizing local likelihood in regression discontinuity design: Investigating the impact of ART eligibility on retention in clinical HIV care in South Africa, *Statistics in Medicine*, 43(8), 2024.

Lee, K-J., **Kim, C.**, Yoo, J., Lee, K., Multivariate probit linear mixed models for multivariate longitudinal binary data, *Statistics in Medicine*, 43(8), 2024.

Lee, S.<sup>†</sup>, **Kim, C.**, Dirichlet Process Mixture Models using Matrix-Generalized Half-*t* Distribution, *Stat*, 12(1), 1-13, 2023.

**Kim, C.**, Tec, M., Zigler, C., Bayesian Nonparametric Adjustment of Confounding, *Biometrics*, 79(4), 3252-3265, 2023.

Koo, D., **Kim, C.**, Lee, K., A Bayesian Method for Multinomial Probit Model, *The Journal of the Korean Statistical Society*, 52, 265-281, 2023.

Kwon, N.<sup>†</sup>, **Kim, C.**, Causal Effect of Urban Parks on Children's Happiness, *The Korean Journal of Applied Statistics*, 36(1), 63-83, 2023.

**Kim, C.**, Bayesian Additive Regression Trees in Spatial Data Analysis with Sparse Observations, *Journal of Statistical Computation and Simulation*, 92(15), 3275-3300, 2022.

Park, S.<sup>†</sup>, **Kim, C.** Comparison of Tree-based Ensemble Models, *Communications for Statistical Applications and Methods*, 29(5), 1-29, 2022.

Liu, X., **Kim, C.**, Han, Z., Lim, P., Roychoudhury, S., Fava, M., Doros, G., Assessing treatment benefit in the presence of placebo response using the sequential parallel comparison design, *Statistics in Medicine*, 41(12), 2166-2190, 2022.

Lee, K.J., **Kim, C.**, Chen, R.B., Lee, K., Robust Probit Linear Mixed Models for Longitudinal Binary Data, *Biometrical Journal*, 64(7), 1307-1324, 2022.

**Kim, C.**, Lin, X., Nelson, K., Measuring Rater Bias in Diagnostic Tests with Ordinal Ratings, *Statistics in Medicine*, 40(17), 4014-4033, 2021.

**Kim, C.**, Henneman, L., Choirat, C. Zigler, C. M., Health Effects of Power Plant Emissions through Ambient Air Quality, *elected as a top cited paper in Wiley 2020-2021*, *Journal of the Royal Statistical Society: Series A*, 183(4), 1677-1703, 2020.

**Kim, C.**, Daniels, M. J., Hogan, J. W., Choirat, C., Zigler, C. M. Bayesian Methods for Multiple Mediators: Relating Principal Stratification and Causal Mediation in the Analysis of Power Plant Emission Controls, *awarded ASA 2017 Biometrics section travel award; and awarded an honorable mention for the Mitchell Prize 2019*, *ISBA, The Annals of Applied Statistics*, 13(3), 1927-1956, 2019.

**Kim, C.**, Deviance Information Criteria for Mixtures of Distributions, *Communications in Statistics - Simulation and Computation*, 50(10), 2935-2948, 2021.

Liu, Y., **Kim, C.**, Wu, A. D., Gustafson, P., Zumbo, B. D. Investigating the Performance of Propensity Score Approaches for Differential Item Functioning Analysis, *Journal of Modern Applied Statistical Methods*, 18(1), 2-26, 2019.

**Kim, C.**, Daniels, M. J., Li, Y., Milbury, K., Cohen, L., A Bayesian Semiparametric Latent Variable Approach to Causal Mediation, *Statistics in Medicine*, 37(7), 1149-1161, 2018.

**Kim, C.**, Daniels, M.J., Marcus, B., Roy, J., A framework for Bayesian nonparametric inference for causal effects of mediation, *Biometrics*, 73(2), 401-409, 2017.

Zigler, C. M., **Kim, C.**, Choirat, C. Hansen, J. B., Wang, Y., Hund, L., Samet, J., King, G., Dominici, F., Causal Inference Methods for Estimating Long-Term Health Effects of Air Quality Regulations, *Health Effects Institute Research Report*, 187, 5-49, 2016 (peer-reviewed).

Daniels, M. J., Roy, J., **Kim, C.**, Hogan, J. W., Perri, M., Bayesian Inference for the Causal Effects of Mediation, *Biometrics*, 68(4), 1028-1036, 2012.

### Collaborative Publications

Jang et al., Menopausal Stage Transitions and their Associations with Overall and Individual Sleep Quality in Middle-aged Korean Women, *Journal of Affective Disorders*, 368(1), 82-89, 2025.

Park et al., Overactive bladder and cognitive impairment in middle-aged women: a cross-sectional study, *Maturitas*, 187, 108042, 2024.

Choi et al., Early-onset vasomotor symptoms and the development of depressive symptoms among premenopausal women, *Journal of Affective Disorders*, 354(1), 376-384, 2024.

Cheong et al., Human papillomavirus infection and cardiovascular mortality: a cohort study, *European Heart Journal*, 45(12), 1072-1082, 2024.

Kim, Y. et al., Serum 25-hydroxyvitamin D levels and the risk of early-onset colorectal cancer, *Gastroenterology*, 165(4) 920-931, 2023.

Nguyen, D., Levy, J., **Kim, C.**, Lane, K., Simon, M., Hart, J., Whitsel, E., VoPham, T., Malwitz, A., Pters, J., Characterizing temporal trends in populations exposed to aircraft noise around U.S. airports: 1995-2015, to appear in *Journal Of Exposure Science And Environmental Epidemiology*, 2023+.

Cho, Y., Chang, Y., Ryu, S., **Kim, C.**, Wild, S., Byrne, C., History of gestational diabetes and incident nonalcoholic fatty liver disease: The Kangbuk Samsung Health Study, *American Journal of Gastroenterology*, 118(11) 1980-1988, 2023.

Peer, K., Adams W. G., Legler, A., Sandel, M., Levy, J., Boynton-Jarrett, R., **Kim, C.**, Leibler, J. H., Fabian, M. P., Developing and evaluating a pediatric asthma severity computable phenotype derived from electronic health records, *The Journal of Allergy and Clinical Immunology*, 147(6), 2162-2170, 2021.

Nguyen, M., Feeney, T., **Kim, C.**, Drake, T., Mitchell, S., Bednarczyk, M., Sanchez, S., Patient-Level Factors Influencing Palliative Care Consultation at a Safety-Net Urban Hospital, *American Journal of Hospice and Palliative Medicine*, 38(11), 1299-1307, 2021.

Liu, Y., Beliveau, A., Besche, H., Wu, A., Zhang, X., Stefan, M., Gutlerner, J., **Kim, C.**, Bayesian Mixed Effects Model and Data Visualization for Understanding Item Response Time and Response Order in Open Online Assessment, *Frontiers in Education, section Assessment, Testing and Applied Measurement*, 5, 274, 2021.

Nguyen, M., Feeney, T., **Kim, C.**, Drake, T., Mitchell, S., Bednarczyk, M., Sanchez, S., Differential Utilization of Palliative Care Consultation between Medical and Surgical Services, *American Journal of Hospice and Palliative Medicine*, 37(4), 250-257, 2020.

Mahalingaiah, S., Lane, K.J., **Kim, C.**, Cheng, J., Hart, J., Impacts of Air Pollution on Gynecologic Disease: Infertility, Menstrual Irregularity, Uterine Fibroids, and Endometriosis: a Systematic Review and Commentary, *Current Epidemiology Reports*, 5(3), 197-204, 2018.

Zhang, Z., Zheng, C., **Kim, C.**, Van Poucke, S., Lin, S., Lan, P., Causal Mediation Analysis in the Context of Clinical Research, *Annals of Translational Medicine*, 4(21), 1-20, 2016.

Perri, M., Limacher, M., von Castel-Roberts, K., Daniels, M., Durning, P., Janicke, D., Bobroff, L., Radcliff, T., Milsom, V., **Kim, C.**, Martin, A., Comparative Effectiveness of Three Doses of Weight Loss Counseling: Two-Year Findings from the Rural LITE Trial, *Obesity*, 22, 2293-2300, 2014.

#### Manuscripts Submitted or Under Revision († denotes student mentee)

**Kim, C.**, Kim, H.<sup>†</sup>, Bayesian Decision Trees for Confounder Selection in Mediation Analysis, submitted (*NeurIPS 2025*).

Song, Y., Maurizio, F., **Kim, C.**, Robert, Y., Gheorghe, D., Estimating Causal Treatment Effects in the Sequential Parallel Comparison Design (SPCD), under review after minor revision (*Statistics in Medicine*).

Bae, Y.<sup>†</sup>, **Kim, C.**, Wang, F., Sun, Q., Lee, K., Bayesian Variable Selection for High-Dimensional Mediation Analysis: Application to Metabolomics Data in Epidemiological Studies, under revision (*Statistics in Medicine*).

Peer, K., Adams W. G., Legler, A., Sandel, M., Levy, J., Boynton-Jarrett, R., **Kim, C.**, Leibler, J. H., Fabian, M. P., Beyond a reductionist approach to residential mobility definitions in the health literature: opportunities and challenges using electronic health record address data, submitted.

**Kim, C.**, Zigler, C. M., Daniels, M. J., Choirat, C., Roy, J. A., Bayesian Longitudinal Causal Inference in the Analysis of the Public Health Impact of Pollutant Emissions [[arXiv](#)].

Cummiskey, K., **Kim, C.**, Choirat, C., Schwartz, J., Zigler, C. A Source-Oriented Approach to Coal Combustion PM<sub>2.5</sub> Health Effects [[arXiv](#)], under revision.

#### PAPERS IN PREPARATION

**Kim, C.**, Hogan, J. W., Marcus, B., Daniels, M. J., A Framework for Causal Inference for Multiple Mediators, In preparation (draft available upon request).

**Kim, C.**, Nelson, K., Enhanced Method for Measuring Rater Bias in Diagnostic Tests with Ordinal Ratings, In preparation.

Liu, X., Han, Z., **Kim, C.**, Doros, G., Assessing treatment effect for the sequential parallel comparison design via stratum-specific estimands when a non-responder criterion is not present, In preparation.

#### PACKAGE / SOFTWARE

**BNPMediation**, an R package. Implements Bayesian nonparametric methods to estimate the causal effects of mediation. Available in CRAN.

**BayesODT**, an R package. Implements Bayesian hierarchical model to measure rater bias for ordinal classification processes. Available in [lit777.github.io](https://lit777.github.io).

#### PRESENTATIONS INVITED TALKS

The 7th Pacific Causal Inference Conference (PCIC),	Jul 2025
EAC-ISBA Conference 2025,	Jul 2025
17th International Conference of the ERCIM WG on CMStatistics,	Dec 2024
ISBA World Meeting 2024, Venice, Italy (cancelled due to illness),	Jul 2024
The Institute for Mathematical Statistics – Asia-Pacific Rim Meeting(IMS-APRM 2024),	Jan 2024
16th International Conference of the ERCIM WG on CMStatistics,	Dec 2023
IASC-LARS Data Science Conference in Chile,	Nov 2023
Department of Statistics, Seoul National University,	Oct 2023

25th International Conference on Computational Statistics (COMPSTAT2023), Aug 2023	
6th International Conference on Econometrics and Statistics (EcoSta),	Jul 2023
15th International Conference of the ERCIM WG on CMStatistics,	Dec 2022
Invited Seminar on Causality, Data Science PLUS,	Nov 2022
Fall Conference, The Korean Data & Information Science Society,	Nov 2022
Data Science, Statistics & Visualisation (DSSV) 2022, IASC-ISI, Taiwan	Jun 2022
Invited Section for Bayesian Statistics, The Korean Statistical Society	Jun 2022
Department of Statistics, Yonsei University, South Korea	Dec 2021
Department of Statistics, Korea University, South Korea	Nov 2021
Seminar on Causal Mediation Analysis, National Evidence-based Healthcare Collaborating Agency,	Aug 2021
10th Bernoulli-IMS World Congress in Probability and Statistics, Seoul, Korea (Virtual),	Jul 2021
63rd ISI World Statistics Congress, Hague (Virtual),	Jul 2021
Seminar on Social Science Methods, Center of Politics and Communication, Seoul National University,	Jun 2021
4th International Conference on Econometrics and Statistics (EcoSta 2021), Hong Kong (Virtual),	Jun 2021
Working Group on Causal Inference and Machine Learning, Harvard University,	May 2021
Spring Conference, The Korean Data & Information Science Society,	May 2021
Invited Section for Bayesian Statistics, The Korean Statistical Society,	Dec 2020
Department of Statistics, SungKyunKwan University, South Korea	Oct 2020
Department of Statistics, Ewha University, South Korea	Aug 2020
4th International Conference on Econometrics and Statistics, Seoul, Korea, 2020 (postponed)	Jul 2020
Bayesian Causal Inference Workshop, Ohio State University, OH (Cancelled)	Jun 2019
Atlantic Causal Inference Conference, McGill University, Canada	May 2019
Institute for Computational and Experimental Research in Mathematics, Brown University, RI	Jan 2019

Graduate School of Future Strategy, KAIST, Daejeon, Korea	Aug 2018
2018 Joint Statistical Meeting, Vancouver, Canada	Aug 2018
The 3rd ISBA-EAC Conference , Seoul, Korea	Jul 2018
2018 ICSA China Conference with the Focus on Data Science, Qingdao, Shangdong, China	Jul 2018
2018 IISA International Conference on Statistics, Gainesville, FL	May 2018
Statistics and Probability Seminar Series, Boston University, MA	Apr 2018
Biostatistics Student Association (BSA) Seminar, Boston University, MA	Nov 2017
Global Health Research Seminar Series, Boston University, MA	Oct 2017
Environmental Statistics Seminar, Harvard University, MA	May 2017
The 31st New England Statistics Symposium, Univ. of Connecticut, CT	Apr 2017
Department of Biostatistics, Boston University, MA	Feb 2017
Department of Biostatistics and Bioinformatics, Duke University, NC	Jan 2017
Department of Biostatistics, Indiana University, Indianapolis, IN	Jan 2017
Div. of Sleep and Circadian Disorders, Brigham and Women's Hospital	Nov 2016
P01 Retreat, Harvard University	Oct 2016
Department of Statistics, SungKyunKwan University, South Korea	Apr 2016
Environmental Statistics Seminar at Harvard Biostatistics	Sep 2015
2015 Atlantic Causal Inference Conference, Philadelphia, PA	May 2015
Department of Biostatistics, Harvard School of Public Health	Dec 2013
Joint meeting of the IASC satellite conference for the 59th ISI WSC and the 8th conference of the ARS of the IASC, South Korea	Aug 2013

#### TOPIC-CONTRIBUTED TALKS

2017 Joint Statistical Meeting, Baltimore, MD (Missed)	Aug 2017
- Biometrics Section Award Presentation : <i>Bayesian Methods for Multiple Intermediate Variables: Principal Stratification and Causal Mediation Analysis</i>	
2016 Joint Statistical Meeting, Chicago, IL	Aug 2016
2014 Joint Statistical Meeting, Boston, MA	Aug 2014

#### CONTRIBUTED TALKS



10th World Congress in Probability and Statistics, Seoul (Virtual)	Jul 2021
2017 ENAR Meeting, DC	Mar 2017
2016 ENAR Meeting, Austin, TX	Mar 2016
P01 retreat at Harvard Biostatistics	Oct 2015
Bayesian Causal Inference Group Seminar at Harvard Biostatistics	Jun 2015
Bayesian Causal Inference Group Seminar at Harvard Biostatistics	Jan 2015
Bayesian Causal Inference Group Seminar at Harvard Biostatistics	Sep 2014
Acid Rain Program Group Seminar at Harvard	Sep 2014, Feb 2015
2015 ENAR Meeting, Miami, FL	Mar 2015
2014 ENAR Meeting, Baltimore, MD	Mar 2014
2013 Joint Statistical Meeting, Montreal, Canada	Aug 2013

#### POSTER PRESENTATIONS

2015 International Health Policy Statistics Conference, Providence, RI	Oct 2015
2015 Atlantic Causal Inference Conference, Philadelphia, PA	May 2015
2013 Atlantic Causal Inference Conference, Boston, MA	May 2013
2012 SRCOS Summer Research Conference, GA	Jun 2012
2012 Atlantic Causal Inference Conference, Baltimore, MD	May 2012
Workshop on Causal Inference and Graphical Models, Winter Workshop 2012, University of Florida	Jan 2012
NSF Research Day, University of Florida	Oct 2011
Workshop on Causal Inference in Health Research, CRM, University of Montreal, Canada	May 2011

#### PROFESSIONAL SERVICE

##### EDITORIAL BOARD

Co-Editor (CSAM, 2025 - ) / Associate Editor (CSAM, 2023 - 2025)

##### REVIEWER (Publons)

*Journal of American Statistical Association (theory and methods; applications and case studies), Biometrics, Statistics in Medicine, Bayesian Analysis, Journal of Royal Statistical Society: Series B, Journal of Royal Statistical Society: Series C, Journal of Causal Inference, Statistica Sinica, Annals of Applied Statistics, Biostatistics, Statistical Science, Epidemiologic Methods, BMJ Open, BMC Medical Research Methodology, Computational Statistics and Data Analysis, The Canadian Journal of Statistics, Journal of Agricultural Biological and Environmental Statistics, BMC Public Health,*

*WIREs Computational Statistics, The International Journal of Biostatistics, Statistical Methods and Applications, The Korean Journal of Applied Statistics, Scientific Reports, MRC grant proposal, HEI grant proposal, Structural Equation Modeling: A Multidisciplinary Journal, Statistical Methods in Medical Research, Journal of Statistical Computation and Simulation, Statistical Science*

#### PROFESSIONAL SOCIETY

Elected Member of ENAR Council for Emerging and New Statisticians. 2014 - 2016  
Members of ENAR, ASA, ISBA

#### CONFERENCE ORGANIZATION

**Session Organizer** : Invited Session at EcoSta (2025), Invited Session at CMStatistics (2021, 2022), Invited Session at KDISS (2022), Invited Session at 2021 Fall Conference of KSS, Invited Session at ENAR (2019), Invited Session at JSM (2018), Invited Session at ACIC (2018), Topic-contributed sessions at JSM (2016, 2017)

**Session Chair** : Invited Session at EcoSta (2025), CMStatistics (2011, 2022), KDISS (2022), KSS(2021), ENAR (2015), JSM (2016), Invited Session at ENAR (2020)

Others: Judge of 2014 ENAR spring meeting RAB poster competition.

#### DEPARTMENTAL SERVICE

##### PHD STUDENTS

Youngho Bae (SKKU), Winter 2025

Awarded the best poster award at 3rd World Conference on Data Science and Statistics, Netherlands

##### MS STUDENTS

Youngho Bae (SKKU), Winter 2021

Awarded a poster award (2nd prize) at 2021 Spring Conference of KDISS.

Doyoung Kim (SKKU), Spring 2022

Awarded the best poster award (1st prize) at 2021 Spring Conference of KDISS and an honorable mention for the poster award at 2021 Spring Conference of KSS.

Currently, Ph.D. student in the Dept. of Statistics at Florida State Univ.

Sangho Park (SKKU), Winter 2021

Currently at Samsung Medical Center.

Yeonghoon Yoo (SKKU), Spring 2022

Hyunwoo Lim (SKKU), Spring 2022

Currently at Seoul Guarantee Insurance Company.

Nayeon Kwon (SKKU), Winter 2022

Awarded a poster award (2nd prize) at 2022 Winter Conference of KDISS.

Sanghyun Lee (SKKU), Winter 2022

Currently working for the Korean government.

Jaehyun Seo (SKKU), Winter 2022

Awarded an honorable mention for the poster award at 2022 Spring Conference of KSS.

Currently at Neople

Jaeho Yoon (SKKU), Spring 2023

Formally, Ph.D. student at Univ. of Georgia.

Namtaek Kwon (SKKU), Spring 2023

Currently, at Netmarble.

Yeseul Sung (SKKU), Winter 2023

Eunju Sim (SKKU), Winter 2023

Currently at DB Insurance.

Juwon Jung (SKKU), Winter 2023

Currently, a PhD student at Korea University.  
Heechul Jeong (SKKU), expected Spring 2024

Currently at SBI Savings Bank.

Jin Lee (SKKU), Winter 2024

Sun Min Yi (SKKU), Winter 2024

Jisung Park (SKKU), Winter 2024

Jungeun Lee (SKKU), Spring 2025

Seokho Kim (SKKU), expected Winter 2025

Awarded the paper award (3rd prize) at 2025 Summer Conference of KSS.

Hyunwoo Kim (SKKU), expected Winter 2025

Joohyung Son (SKKU), expected Winter 2025

Hyunbin Kim (SKKU), expected Spring 2026

Taeso Kim (SKKU), expected Winter 2025

Yerim Park (SKKU), expected Spring 2026

I-Heon Jung (SKKU), expected Spring 2026

Doun Jeon (SKKU), expected Spring 2026

#### PHD COMMITTEES

Kevin Cummiskey (Harvard Biostatistics, 2018). Advisor: Corwin M. Zigler

Aya Mitani (Boston Univ. Biostatistics, 2019). Advisor: Kerrie Nelson

Komal Basra (Boston Univ. Environmental Health, 2021). Advisor: Patricia Fabian

Daniel Nguyen (Boston Univ. Environmental Health, 2022). Advisor: Junenette Peters

Xiaoyan Liu (Boston Univ. Biostatistics, 2022). Advisor: Gheorghe Doros

#### MS COMMITTEES

Amelia Williams (Boston University Epidemiology, 2018). Advisor: Kimberly Shea

#### QUAL EXAMINER

Chloe Kim (Boston University Environmental Health). Advisor: Michael McClean

Komal Basra (Boston University Environmental Health, 2019). Advisor: Patricia Fabian

#### OTHER SERVICES

Co-Organizer, Epidemiology+Biostatistics Joint Seminar Series, Boston University 2018

Co-Organizer, Seminar Series, Department of Biostatistics, Boston University 2017 - 2019

Co-Chair, Course Development Task Force (Topics in Causal Inference), Department of Biostatistics, Boston University 2018 - 2019

Convener, PhD Program Review Committee, Department of Biostatistics, Boston University 2018

Faculty Search Committee, Department of Biostatistics, Boston University 2018 - 2019

Co-Organizer, Causal Inference Seminar Series, Departments of Biostatistics + Mathematics and Statistics, Boston University 2018-

Biostatistics Program Advisory Committee (BPAC), Departments of Biostatistics, Boston University 2019-

MA/PhD Admission Committee, Departments of Biostatistics, Boston University 2019-

#### TEACHING EXPERIENCE

#### INSTRUCTOR

STA3010 - Intro. to Nonparametric Statistics (Undergrad) Fall 2024, Fall 2022  
Department of Statistics, SungKyunKwan University

STA5041 - Topics in Bayesian Methods (Grad)	Fall 2022
Department of Statistics, SungKyunKwan University	
STA3034 - Massive Data Analysis and Visualization (Undergrad)	Spring 2021, Fall 2023
Department of Statistics, SungKyunKwan University	
STA2016 - Intro. to Statistical Programming (Undergrad)	Fall 2020, Fall 2021, Spring 2022, Spring 2023, Spring 2024, Fall 2024, Spring 2025
Department of Statistics, SungKyunKwan University	
STA5004 - Advanced Categorical Data Analysis (Grad)	Fall 2020, Fall 2021
Department of Statistics, SungKyunKwan University	
STA5030 - Bayesian Statistics (Grad)	Spring 2020, Spring 2021, Fall 2023
Department of Statistics, SungKyunKwan University	
STA5039 - Causal Inference (Grad)	Spring 2022, Spring 2023, Spring 2024
Department of Statistics, SungKyunKwan University	
BS730 - Introduction to Statistical Computing	Spring 2018, Spring 2019
Teaching core statistical concepts and computing skills with R	
Department of Biostatistics, Boston University	
BS901 - Directed Studies in Biostatistics	Summer 2019
Analyzing datasets using nonparametric methods	
Department of Biostatistics, Boston University	
POSTDOC MENTOR	Summer 2017
6 weeks mentoring of summer project participants (Pipelines into Biostatistics)	
Department of Biostatistics, Harvard T. H. Chan School of Public Health	
POSTDOC MENTOR	Summer 2016
6 weeks mentoring of summer project participants (Pipelines into Biostatistics)	
Department of Biostatistics, Harvard T. H. Chan School of Public Health	
GUEST LECTURER	Fall 2018, Spring 2019, Fall 2019
Causal Mediation Analysis (3 hours) in BS852 (Bayesian Methodology in Biostatistics)	
Department of Biostatistics, Boston University School of Public Health	
GUEST LECTURER	Fall 2014
Causal Mediation Analysis (2 hours) in BIO 249 (Bayesian Methodology in Biostatistics)	
Department of Biostatistics, Harvard T. H. Chan School of Public Health	
GUEST LECTURER	Spring, Fall 2013
2 hour BUGS tutorial in the course SSC 384.7 (spring)	
1 hour BUGS tutorial in the course SSC 383C (Fall)	
Division of Statistics and Scientific Computation, The University of Texas at Austin	
LAB-INSTRUCTOR	Fall 2008, Spring 2009
STA 2023 - Introduction to Statistics	
Teaching lab sessions of the course 3 hours a week	
Evaluation: 4.31/5 (Spring 2009), 4.38/5, 4.26/5, 4.35/5 (Fall 2008)	
Department of Statistics, University of Florida	

TEACHING ASSISTANT AT UF	Spring, Fall 2009
STA 3032 - Engineering Statistics	
STA 4210 - Regression Analysis	
STA 4183 - Theory of Interest	
ESI 6546 - Stochastic Modeling and Analysis (Grader)	

TEACHING ASSISTANT AT COLUMBIA UNIVERSITY	Spring 2007
W1211 - Introduction to Statistics (with Calculus)	

#### GRANT FUNDING ACTIVE

NRF mid-career research (PI: Chanmin Kim)	Mar 2025 - Feb 2029
Development of integrated data science methodologies based on disease stage for medical big data analysis	
Role: <b>Principal investigator</b>	555,423,000 won

NRF basic research lab (PI: Keunbaik Lee)	Aug 2024 - Apr 2027
Development of integrated data science methodologies based on disease stage for medical big data analysis	
Role: <b>Co-investigator</b>	1,375,000,000 won

#### COMPLETED

NRF basic research(PI: Chanmin Kim)	Jun 2022 - Feb 2025
Bayesian non-parametric method for longitudinal causal mechanism analysis.	
Role: <b>Principal Investigator</b>	210,000,000 won

NRF basic research (PI: Chanmin Kim)	Jun 2020 - Feb 2023
Bayesian non-parametric methods for estimating causal effect heterogeneity.	
Role: <b>Principal Investigator</b>	170,000,000 won

Sungkyun Research Fund (PI: Chanmin Kim)	Dec 2021 - Dec 2022
Heterogeneous Mediation Analysis for High-dimensional Confounders and Mediators.	
Role: <b>Principal Investigator</b>	13,000,000 won

US-EPA (PI: Corwin Zigler)	Sep 2016 - Aug 2020
Air Climate and Energy Center: Regional Air Pollution Mixtures: The Past and Future Impacts of Emission Controls and Climate Change on AirQuality and Health, Project 4: A Causal Inference Framework to Support Policy Decisions by Evaluating the Effectiveness of Past Air Pollution Control Strategies for the Entire United States.	
Role: <b>PI on subcontract</b> , subcontract from Harvard University	

NIH (PI: Kerrie Nelson)	Feb 2018 - Aug 2022
Improving Accuracy and Reliability in Cancer Screening Tests	
Role: <b>Biostatistician</b>	

NIH (PI: David Sherr)	Sep 2012 - Aug 2020
Superfund Research Program at Boston University	
Role: <b>Biostatistician</b>	

NIH (PI: Lauren Wise and Elizabeth Hatch)	Jan 2019 - Oct 2023
A Preconception Cohort Study of Environmental Chemicals, Fertility, and Miscarriage	
Role: <b>Biostatistician</b>	

	NIH (PI: Debbie Cheng)	Sep 2016 - Aug 2021
	Biostatistics and Data Management (BDM) Core - URBAN ARCH Consortium	
	Role: <b>Biostatistician</b>	
	NIH (PI: Jason Roy)	Sep 2014 - Aug 2018
	Non-Parametric Bayesian Methods of Causal Inference.	
	Role: <b>PI on subcontract</b> , subcontract from University of Pennsylvania	
	NIH (PI: Corwin Zigler)	Sep 2015 - Aug 2020
	Causal Inference with Interference for Evaluating Air Quality Policies	
	Role: <b>Investigator</b>	
	NIH (PI: Kerrie Nelson)	Jan 2014 - Dec 2019
	Modeling Agreement in Cancer Diagnostic Tests	
	Role: <b>Biostatistician</b>	
PROJECT	ACTIVE	
	Doosan Enerbility	Apr 2024 - Dec 2024
	Bayesian causal methods development for Doosan Enerbility's wind power business	
	Role: <b>Project Manager</b>	
COMPUTING	STATISTICAL PROGRAMS (PACKAGES)	
	R, SAS, Stan, BUGS (WinBUGS, OpenBUGS), MATLAB	
	- SAS Certified Base Programmer for SAS 9 Credential	May 2012
	- SAS Certified Advanced Programmer for SAS 9 Credential	Sep 2012
	PROGRAMMING LANGUAGES	
	C++, Python	
	OPERATING SYSTEM	
	Unix, Linux, Windows	
MISCELLANEOUS	Exam P pass, Society of Actuaries	Mar 2011