

Contact Information

Department of Statistics, University of Florida
117D Griffin-Floyd Hall, Gainesville, FL 32611

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Education

Aug 2018 – Present	University of Florida , Gainesville, FL Ph.D., Student, Statistics under the supervision of <i>Dr. Michael Daniels</i>
Mar 2016 – Feb 2018	Yonsei University , Seoul, Korea M.A., Statistics under the supervision of <i>Dr. Sangwook Kang</i>
Mar 2009 – Feb 2016	Kyung Hee University , Seoul, Korea B.S., Mathematics and B.E., Economics (Dual Degree)

Research Experience

Graduate Internship

May 2022 – Aug 2022 **Regeneron Pharmaceuticals Inc.**
Under the supervision of *Dr. Chenguang Wang*

Research Assistant

May 2020 – Present	Department of Statistics, University of Florida Under the supervision of <i>Dr. Michael Daniels</i>
Sep 2016 – Feb 2018	Department of Applied Statistics, Yonsei University Under the supervision of <i>Dr. Sangwook Kang</i>

Teaching Experience

Teaching Assistant

Department of Statistics, University of Florida

STA 5328	Fundamentals of Statistics
STA 5325	Fundamentals of Probability
STA 4322	Introduction to Statistics Theory
STA 4321	Introduction to Probability
STA 3032	Engineering Statistics
STA 3024	Introduction to Statistics 2
STA 2023	Introduction to Statistics 1

Department of Applied Statistics, Yonsei University

STA 3123	Sampling Theory
STA 3108	Survival Analysis
STA 1001	Introduction to Statistics

Research Interests

Bayesian Methodology, Casual Inference, Biostatistics, Survival Analysis, Missing Data, Building a Software

Computer Skills

Languages & Software R, RCPP, SAS, MATLAB, L^AT_EX

Publications

* : Co-first author

1. Choi, D.*, **Bae, W.*** and Kang, S. (2022+) Model Checking Methods for Semi-Parameteric Accelerated Failure Time Models.
2. **Bae, W.***, Choi, D.* and Kang, S. (2022+) R Package afttest for Checking Semiparametric Accelerated Failure Time Models with an Induced Smoothing Approach.

Presentation

Contributed Talk

- Aug 2022 Causal Mediation in Weight Management Trials using Bayesian Nonparametrics, *Joint Statistical Meeting*, Washington, D.C.
- Mar 2022 A More Flexible Bayesian Nonparametric Approach to Causal Mediation, *Eastern North American Region*, Houston, TX.
- Dec 2021 A More Flexible Bayesian Nonparametric Approach to Causal Mediation, *US-KOREA Conference*, Los Angeles, CA.
- Aug 2021 A More Flexible Bayesian Nonparametric Approach to Causal Mediation, *Joint Statistical Meeting*, Seattle, WA.
- Jul 2021 A More Flexible Bayesian Nonparametric Approach to Causal Mediation, *International Society for Bayesian Analysis*, University of Connecticut, Storrs, CT.
- Nov 2017 R package afttest for Checking Semiparametric Accelerated Failure Time Models afttest, *Korean Statistical Society Fall Meeting*, Seoul, Korea.

Contributed Poster

- June 2022 Causal Mediation in Weight Management Trials using Bayesian Nonparametrics, *International Society for Bayesian Analysis*, Montreal, Canada.
- Oct 2021 A More Flexible Bayesian Nonparametric Approach to Causal Mediation, *Southern Regional Council on Statistics*, Jekyll Island, GA.
- Aug 2020 R package afttest for Checking Semiparametric Accelerated Failure Time Models afttest with an Induced Smoothing Approach, *Joint Statistical Meeting*, Philadelphia, PA.

Honors and Awards

Travel Award

- Jun 2022 International Society for Bayesian Analysis
for *International Society for Bayesian Analysis*, Montreal, Canada.
- Mar 2022 College of Liberal Arts and Sciences at University of Florida
for *Eastern North American Region*, Houston, TX.
- Dec 2021 UKC Fellow Award (Korean-American Scientists and Engineers Association)
for *US-KOREA Conference*, Los Angeles, CA
- Oct 2021 Boyd Harshbarger Travel Award (granted by NSF)
for *Southern Regional Council on Statistics*

Scholarship

- 2017S – 2017F Internal Scholarship (Merit-based Scholarship), **Yonsei University**
- 2013F – 2015S Superiority Scholarship (Merit-based Scholarship), **Kyunghee University**

Professional Memberships

2021 – Present	Member, The International Society for Bayesian Analysis
2021 – Present	Member, Eastern North American Region
2020 – Present	Member, American Statistical Association
2017 – Present	Member, International Biometrics Society

Services

Military Service

Oct 2010 – July 2012	Capital Mechanized Infantry Division, Republic of Korea Army <ul style="list-style-type: none">• Served and honorably discharged from Korea Army
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