

### Contact Information

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

Email: woojung.bae@ufl.edu

### Education

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

### Research Experience

#### Graduate Intern

May 2022 – Aug 2022	<b>Regeneron Pharmaceuticals Inc.</b> <i>Under the supervision of Dr. Chenguang Wang</i>
---------------------	---

#### Research Assistant

May 2020 – Present	<b>Department of Statistics, University of Florida</b> <i>Under the supervision of Dr. Michael Daniels</i>
Sep 2016 – Feb 2018	<b>Department of Applied Statistics, Yonsei University</b> <i>Under the supervision of 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, Hierarchical Modelling, Casual Inference, Longitudinal Data Models, Biostatistics, Survival Analysis, Incomplete Data Models, Building a Software

# Computer Skills

Languages & Software   R, RCPP, SAS, MATLAB, L<sup>A</sup>T<sub>E</sub>X

# 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

- Jun 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

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

## Scholarship

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

## Assistantship

May 2020 – Present Research Assistantship, **University of Florida**  
Aug 2018 – Apr 2020 Teaching Assistantship, **University of Florida**  
Sep 2016 – Feb 2018 Research Assistantship, **Yonsei University**  
Sep 2016 – Feb 2018 Teaching Assistantship, **Yonsei 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  
*Served and honorably discharged from Korea Army*