

## 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 *Dr. Michael Daniels*  
Mar 2016 – Feb 2018     **Yonsei University**, Seoul, Korea  
M.A., Statistics under the supervision of *Dr. Sangwook Kang*  
Mar 2009 – Feb 2016     **Kyunghee University**, Seoul, Korea  
B.S., Mathematics and B.E., Economics (Dual Degree)

## Research Experience

### Research Assistant

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

## 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, Missing Data, 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. (2021+) Model Checking Methods for Semi-Parameteric Accelerated Failure Time Models.
2. **Bae, W.\***, Choi, D.\* and Kang, S. (2021+) R Package afttest for Checking Semiparametric Accelerated Failure Time Models with an Induced Smoothing Approach.

# Presentation

## Contributed Talk

- 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

- 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

## Honors and Awards

- October 2021    Travel Award, *Southern Regional Council on Statistics*, Jekyll Island, GA, **SRCOS**
- August 2021    Travel Award, *Joint Statistical Meeting*, Seattle, WA, **University of Florida**
- August 2020    Travel Award, *Joint Statistical Meeting*, Philadelphia, PA, **University of Florida**
- 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, **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