# WooJung Bae <span style="float:right">Curriculum Vitae</span>

## Contact Information

Department of Statistics, University of Florida
117D Griffin-Floyd Hall, Gainesville, FL 32611            Email: woojung.bae@ufl.edu

## Education

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|---|---|
| Aug 2018 – Present | Ph.D., Statistics, University of Florida |
| | *Advisors: Dr. Michael Daniels* |
| Mar 2016 – Feb 2018 | M.A., Statistics, Yonsei University |
| | *Thesis: R Package afttest for Checking Semiparametric Accelerated Failure Time Models* |
| | *Advisors: Dr. Sangwook Kang* |
| Mar 2009 – Feb 2016 | B.S., Mathematics and B.E., Economics (Dual Degree), Kyung Hee University |

## Research Experience

### Graduate Intern

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

### Research Assistant

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| 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**

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| 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**

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| 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, LaTeX

# 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

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|---|---|
| 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

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|---|---|
| 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

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