

# Ihnwhi Heo

[iheo2@ucmerced.edu](mailto:iheo2@ucmerced.edu)

<https://ihnwhiheo.github.io>

|                   |  |             |
|-------------------|--|-------------|
| EDUCATION         | <b>University of California, Merced, USA</b>   | May 2026    |
|                   | Ph.D. Student in <a href="#">Quantitative Methods, Measurement, and Statistics</a>   | (Expected)  |
|                   | Advisors: Dr. <a href="#">Sarah Depaoli</a> and Dr. <a href="#">Fan Jia</a>  |             |
|                   | <b>Utrecht University, The Netherlands</b>   | July 2021   |
|                   | M.Sc. in <a href="#">Methodology and Statistics</a> , <i>Cum Laude</i>   |             |
|                   | Thesis: "All Models are Uncertain, but Averaging is Useful: Bayesian Multi-Model Inference in Structural Equation Models with Bridge Sampling" |             |
|                   | Advisor: Prof. Dr. <a href="#">Eric-Jan Wagenmakers</a> (University of Amsterdam)  |             |
|                   | <b>Sungkyunkwan University, South Korea</b>  | August 2019 |
|                   | B.A. in Psychology, <i>Highest Honors</i>  |             |
|                   | Project: "The Paradox in Goal Pursuit: Preference Reversal When Means Justifies Ends"  |             |
| HONORS AND AWARDS | <b>Graduate Student Opportunity Program Fellowship</b>   | 2022-2023   |
|                   | Graduate Dean, University of California, Merced  |             |
|                   | <b>Summer Support Award</b>  | 2022        |
|                   | Department of Psychological Sciences, University of California, Merced   |             |
|                   | <b>Development Support Award</b>   | 2021        |
|                   | Department of Psychological Sciences, University of California, Merced   |             |
|                   | <b>Graduation with Distinction</b>   | 2021        |
|                   | Department of Methodology and Statistics, Utrecht University   |             |
|                   | <b>Utrecht Excellence Scholarship</b>  | 2020        |
|                   | President of Utrecht University  |             |
|                   | <b>Scholarship for the GESIS Summer School in Survey Methodology</b>   | 2020        |
|                   | European Survey Research Association   |             |
|                   | <b>Utrecht Excellence Scholarship</b>  | 2019        |
|                   | President of Utrecht University  |             |
|                   | <b>Presidential Award for Best Scholarly Achievement</b>   | 2019        |
|                   | President of Sungkyunkwan University   |             |
|                   | <b>Graduation with Highest Honors</b>  | 2019        |
|                   | College of Social Sciences, Sungkyunkwan University  |             |
|                   | <b>Best Undergraduate Research Project Award</b>   | 2018        |
|                   | Department of Psychology, Sungkyunkwan University  |             |
|                   | <b>Alumni Scholarship for Students with Research Potential</b>   | 2018        |
|                   | Department of Psychology, Sungkyunkwan University  |             |
|                   | <b>Academic Excellence Scholarship</b>   | 2018        |
|                   | Department of Psychology, Sungkyunkwan University  |             |
|                   | <b>Distinguished Academic Achievement Scholarship</b>  | 2018        |
|                   | Student Affairs Division, Sungkyunkwan University  |             |
|                   | <b>Academic Excellence Scholarship</b>   | 2017        |
|                   | Department of Psychology, Sungkyunkwan University  |             |

|                          |  |      |
|--------------------------|--|------|
|                          | <b>Academic Excellence Scholarship</b>   | 2016 |
|                          | Department of Psychology, Sungkyunkwan University  |      |
|                          | <b>Academic Excellence Scholarship</b>   | 2016 |
|                          | University College, Sungkyunkwan University  |      |
| UNDER REVIEW             | Liu, R., <b>Heo, I.</b> , Shi, D., & Jiang, Z. (Under Review). Applying negative binomial distribution in diagnostic classification models for analyzing count data.   |      |
| CONFERENCE PRESENTATIONS | <p><b>Heo, I.</b>, Jia, F., &amp; Depaoli, S. (2022, May 26-29). <i>Bayesian model fit and selection indices for detecting misspecification: The case of Bayesian piecewise growth modeling</i> [Poster presentation]. 34th Association for Psychological Science Annual Convention, Chicago, IL.</p> <p>Liu, R., <b>Heo, I.</b>, Liu, H., Shi, D., &amp; Jiang, Z. (2022, April 21-26). <i>Diagnostic classification models for analyzing examinees' responses to a large number of small and similar tasks</i> [Paper presentation]. 2022 American Educational Research Association Annual Meeting, San Diego, CA.</p>   |      |
| TALKS                    | <p><b>Heo, I.</b> (2022, April 29). <i>The impact of model misspecification and missing data on Bayesian piecewise growth modeling</i>. Annual Departmental Talk, Department of Psychological Sciences, University of California, Merced, Merced, CA.</p> <p><b>Heo, I.</b> (2021, October 27). <i>Bayesian multi-model inference in structural equation models with bridge sampling</i>. Quantitative Methods, Measurement, and Statistics Brownbag Series, Department of Psychological Sciences, University of California, Merced, Merced, CA.</p> <p>Simons, J. -W., Nieuwenweg, B., &amp; <b>Heo, I.</b> (2020, May 28). <i>I used to think my small sample was a tragedy, but now I realize it has a remedy!</i> [Canceled due to COVID-19]. 2020 Utrecht University Poster Fair, Utrecht University, Utrecht, The Netherlands.</p> <p><b>Heo, I.</b> (2018, November 9). <i>The paradox in goal pursuit: Preference reversal when means justifies ends</i>. Annual Departmental Research Presentation, Department of Psychology, Sungkyunkwan University, Seoul, South Korea.</p>  |      |
| TUTORIALS                | <p><b>Heo, I.</b>, &amp; van de Schoot, R. (2020). Tutorial: Advanced Bayesian regression in jamovi. <i>Zenodo</i>. <a href="https://doi.org/10.5281/zenodo.4117883">https://doi.org/10.5281/zenodo.4117883</a></p> <p><b>Heo, I.</b>, &amp; van de Schoot, R. (2020). Tutorial: jamovi for Bayesian analyses with default priors. <i>Zenodo</i>. <a href="https://doi.org/10.5281/zenodo.4117881">https://doi.org/10.5281/zenodo.4117881</a></p> <p><b>Heo, I.</b>, &amp; van de Schoot, R. (2020). Tutorial: jamovi for beginners. <i>Zenodo</i>. <a href="https://doi.org/10.5281/zenodo.4008372">https://doi.org/10.5281/zenodo.4008372</a></p> <p><b>Heo, I.</b>, &amp; van de Schoot, R. (2020). Tutorial: WAMBS Checklist in JASP (using JAGS). <i>Zenodo</i>. <a href="https://doi.org/10.5281/zenodo.4001365">https://doi.org/10.5281/zenodo.4001365</a></p> <p><b>Heo, I.</b>, &amp; van de Schoot, R. (2020). Tutorial: JASP for Bayesian analyses with informative priors (using JAGS). <i>Zenodo</i>. <a href="https://doi.org/10.5281/zenodo.4032756">https://doi.org/10.5281/zenodo.4032756</a></p> <p><b>Heo, I.</b>, &amp; van de Schoot, R. (2020). Tutorial: Advanced Bayesian regression in JASP. <i>Zenodo</i>. <a href="https://doi.org/10.5281/zenodo.3991325">https://doi.org/10.5281/zenodo.3991325</a></p> <p><b>Heo, I.</b>, Veen, D., &amp; van de Schoot, R. (2020). Tutorial: JASP for Bayesian analyses with default priors. <i>Zenodo</i>. <a href="https://doi.org/10.5281/zenodo.4008338">https://doi.org/10.5281/zenodo.4008338</a></p> <p><b>Heo, I.</b>, Veen, D., &amp; van de Schoot, R. (2020). Tutorial: JASP for beginners. <i>Zenodo</i>. <a href="https://doi.org/10.5281/zenodo.4008279">https://doi.org/10.5281/zenodo.4008279</a></p> |      |

**Heo, I., Veen, D., & van de Schoot, R. (2020).** Tutorial: R for beginners. *Zenodo*. <https://doi.org/10.5281/zenodo.3963824>

TEACHING  
EXPERIENCE

**Lab Instructor**

Department of Psychological Sciences, University of California, Merced

- Analysis of Psychological Data

Fall 2021 - Spring 2022

An undergraduate-level course for psychology major students

Taught research design, measurement, data visualization, probability theory, statistical inference, hypothesis testing, z-test, t-test, ANOVA, correlation, regression, and metascience

Proctored exams

**Lab Assistant**

Department of Methodology and Statistics, Utrecht University

- Introduction to Structural Equation Modeling using *Mplus*

Summer 2021

A graduate-level course for applied researchers

Helped *Mplus* practicals about regression analysis, exploratory/confirmatory factor analysis, measurement invariance, comparison of nested models, mediation analysis, moderation analysis, cross-lagged panel model, and random intercept cross-lagged panel model

Provided statistical consultation to applied researchers

- Advanced Course on using *Mplus*

Summer 2021

A graduate-level course for applied researchers

Helped *Mplus* practicals about latent growth model, latent growth mixture model, latent class analysis, latent class growth analysis, growth mixture model, latent transition analysis (aka. hidden Markov model), quasi-simplex model, random intercept cross-lagged panel model, autoregressive latent trajectory model, latent curve model with structured residuals, and dynamic structural equation modeling

**Workgroup Instructor**

Department of Methodology and Statistics, Utrecht University

- Advanced Research Methods and Statistics for Psychology

Spring 2020

An advanced undergraduate-level course for clinical psychology major students

Led critical evaluation of the research methods and statistics for articles published in journals

Taught validity, multiple linear regression, ANOVA, ANCOVA, repeated measures/mixed design, and mediation/moderation analysis

Proctored final exam

**Teaching Assistant**

SKK Graduate School of Business, Sungkyunkwan University

- Social Marketing

Fall 2018

A graduate-level course for full-time and professional MBA students

Prepared teaching materials, proctored final exam, and graded answer sheets

SERVICE

**Psi Chi Graduate Panel - Quantitative Area**

2021

Department of Psychological Sciences, University of California, Merced

SKILLS

**Statistical Software**

R, Markdown, Stan, JAGS, WinBUGS, JASP, jamovi, SPSS, Git, *Mplus*, HLM, Qualtrics,  $\text{\LaTeX}$

**Language**

Korean, English, Dutch

RELEVANT  
COURSEWORK

**University of California, Merced**

Advanced Psychological Statistics I  
Item Response Theory  
Structural Equation Modeling

**Utrecht University**

Survey Data Analysis  
Mathematical Statistics  
Psychometrics  
Bayesian Statistics  
Meta-Analysis  
Machine Learning with R  
Generalized Linear Models

**Sungkyunkwan University**

Research Methods in Social Sciences  
Linear Algebra  
Psychological Testing and Measurement  
Advanced Psychological Statistics

Advanced Psychological Statistics II  
Research Design and Methodology  
Bayesian Data Analysis

Multivariate Statistics  
Computational Inference with R  
Multilevel and Structural Equation Modeling  
Biomedical Statistics  
Calculus  
Markup Languages and Reproducible Programming  
Network Analysis

Principles of Statistical Analysis  
Statistical Analysis in Psychology  
Theory Construction and Statistical Modeling  
Multivariate Analysis