Ihnwhi Heo

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https://ihnwhiheo.github.io

INTERESTS	Bayesian Inference, Structural Equation Modeling, Longitudinal Data Analysis, Missing Data Analysis, Hypothesis Testing, Metascience

EDUCATION

University of California, Merced, USA — May 2026 (Expected)
Ph.D. Student in Quantitative Methods, Measurement, and Statistics
Advisors: Dr. Sarah Depaoli and Dr. Fan Jia

Utrecht University, The Netherlands — July 2021
M.Sc. in Methodology and Statistics, *Cum Laude*
Thesis: "All Models are Uncertain, but Averaging is Useful: Bayesian Multi-Model Inference in Structural Equation Models with Bridge Sampling"
Advisor: Prof. Dr. Eric-Jan Wagenmakers (University of Amsterdam)

Sungkyunkwan University, South Korea — August 2019
B.A. in Psychology, *Highest Honors*
Project: "The Paradox in Goal Pursuit: Preference Reversal When Means Justifies Ends"

HONORS AND AWARDS

Graduate Student Opportunity Program Fellowship — 2022-2023
Graduate Dean, University of California, Merced

Summer Support Award — 2022
Department of Psychological Sciences, University of California, Merced

Development Support Award — 2021
Department of Psychological Sciences, University of California, Merced

Graduation with Distinction — 2021
Department of Methodology and Statistics, Utrecht University

Utrecht Excellence Scholarship — 2020
President of Utrecht University

Scholarship for the GESIS Summer School in Survey Methodology — 2020
European Survey Research Association

Utrecht Excellence Scholarship — 2019
President of Utrecht University

Presidential Award for Best Scholarly Achievement — 2019
President of Sungkyunkwan University

Graduation with Highest Honors — 2019
College of Social Sciences, Sungkyunkwan University

Best Undergraduate Research Project Award — 2018
Department of Psychology, Sungkyunkwan University

Alumni Scholarship for Students with Research Potential — 2018
Department of Psychology, Sungkyunkwan University

Academic Excellence Scholarship — 2018
Department of Psychology, Sungkyunkwan University

Distinguished Academic Achievement Scholarship — 2018
Student Affairs Division, Sungkyunkwan University

Academic Excellence Scholarship   2017
Department of Psychology, Sungkyunkwan University

Academic Excellence Scholarship   2016
Department of Psychology, Sungkyunkwan University

Academic Excellence Scholarship   2016
University College, Sungkyunkwan University

UNDER REVIEW   Liu, R., **Heo, I.**, Shi, D., & Jiang, Z. (Under Review). Applying negative binomial distribution in diagnostic classification models for analyzing count data.

TUTORIALS   **Heo, I.**, & van de Schoot, R. (2020). Tutorial: Advanced Bayesian regression in jamovi. *Zenodo.* https://doi.org/10.5281/zenodo.4117883

Heo, I., & van de Schoot, R. (2020). Tutorial: jamovi for Bayesian analyses with default priors. *Zenodo.* https://doi.org/10.5281/zenodo.4117881

Heo, I., & van de Schoot, R. (2020). Tutorial: jamovi for beginners. *Zenodo.* https://doi.org/10.5281/zenodo.4008372

Heo, I., & van de Schoot, R. (2020). Tutorial: WAMBS Checklist in JASP (using JAGS). *Zenodo.* https://doi.org/10.5281/zenodo.4001365

Heo, I., & van de Schoot, R. (2020). Tutorial: JASP for Bayesian analyses with informative priors (using JAGS). *Zenodo.* https://doi.org/10.5281/zenodo.4032756

Heo, I., & van de Schoot, R. (2020). Tutorial: Advanced Bayesian regression in JASP. *Zenodo.* https://doi.org/10.5281/zenodo.3991325

Heo, I., Veen, D., & van de Schoot, R. (2020). Tutorial: JASP for Bayesian analyses with default priors. *Zenodo.* https://doi.org/10.5281/zenodo.4008338

Heo, I., Veen, D., & van de Schoot, R. (2020). Tutorial: JASP for beginners. *Zenodo.* https://doi.org/10.5281/zenodo.4008279

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

CONFERENCE PRESENTATIONS   **Heo, I.**, Jia, F., & Depaoli, S. (2022, May 26-29). *Bayesian model fit and selection indices for detecting misspecification: The case of Bayesian piecewise growth modeling* [Poster presentation]. 34th Association for Psychological Science Annual Convention, Chicago, IL.

Liu, R., **Heo, I.**, Liu, H., Shi, D., & Jiang, Z. (2022, April 21-26). *Diagnostic classification models for analyzing examinees' responses to a large number of small and similar tasks* [Paper presentation]. 2022 American Educational Research Association Annual Meeting, San Diego, CA.

INSTITUTIONAL TALKS   **Heo, I.** (2022, April 29). *The impact of model misspecification and missing data on Bayesian piecewise growth modeling.* Annual Departmental Talk, Department of Psychological Sciences, University of California, Merced, Merced, CA.

Heo, I. (2021, October 27). *Bayesian multi-model inference in structural equation models with bridge sampling.* Quantitative Methods, Measurement, and Statistics Brownbag Series, Department of Psychological Sciences, University of California, Merced, Merced, CA.

Simons, J. -W., Nieuwenweg, B., & **Heo, I.** (2020, May 28). *I used to think my small sample was a tragedy, but now I realize it has a remedy!.* 2020 Utrecht University Poster Fair, Utrecht University, Utrecht, The Netherlands. (Canceled due to COVID-19)

Heo, I. (2018, November 9). *The paradox in goal pursuit: Preference reversal when means justifies ends.* Annual Departmental Research Presentation, Department of Psychology, Sungkyunkwan University, Seoul, South Korea.

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 M*plus* Summer 2021
  A graduate-level course for applied researchers
  Helped M*plus* 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 M*plus* Summer 2021
  A graduate-level course for applied researchers
  Helped M*plus* 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 ACTIVITIES	**Psi Chi Graduate Panel - Quantitative Area**	2021

Department of Psychological Sciences, University of California, Merced

PROFESSIONAL AFFILIATIONS	Open Science Community Utrecht	Association for Psychological Science