Ihnwhi Heo

Curriculum Vitae in January 2025

Contact Information	School of Social Sciences, Humanities and Arts University of California, Merced 5200 North Lake Road Merced, CA 95343, USA	iheo2@ucmerced.edu ihnwhiheo.github.io orcid.org/0000-0002-6123	3-3639 🕩	
Education	University of California, Merced , USA Ph.D. Candidate in Quantitative Methods, Measurement, and Statistics Advisors: Dr. Sarah Depaoli and Dr. Fan Jia		May 2026 (Expected)	
	Utrecht University , The Netherlands M.Sc. in Methodology and Statistics, <i>Cum Laude</i>		July 2021	
	equation models with bridge sampling Supervisor: prof. dr. Eric-Jan Wagenmakers (University of Amsterdam)			
	Sungkyunkwan University , South Korea B.A. in Psychology, <i>Highest Honors</i>		August 2019	
Fellowships and Awards	Awarded by Universities• Outstanding Graduate Student Award, University of California, Merced• Publication Award in Quantitative Psychology, University of California, Merced• Graduate Student Opportunity Program Fellowship, University of California, Merced• Graduate Student Association Travel Award, University of California, Merced• William R. Shadish Award for Leadership and Service, University of California, Merced• Summer Research Award, University of California, Merced• Professional Development Award, University of California, Merced• Utrecht Excellence Scholarship, Utrecht University• Presidential Award for Best Scholarly Achievement, Sungkyunkwan University• Best Undergraduate Research Project Award, Sungkyunkwan University• Academic Achievement Scholarship, Sungkyunkwan University• Academic Excellence Scholarship, Sungkyunkwan University		ed 2024 Merced 2022-2023 2023 a, Merced 2022 2022, 2023, 2024 2021, 2022, 2023, 2024 2019-2021 ty 2019 2018 iversity 2018 2016, 2017, 2018	
Peer-Reviewed Articles	6. Heo, I. , Pfadt, J. M., & Wagenmakers, E.–J. (2024). Contributed discussion of "Sparse Bayesian factor analysis when the number of factors is unknown". <i>Bayesian Analysis</i> . Advance online publication. https://doi.org/10.1214/24-BA1423.			
	5. Heo, I. , Depaoli, S., Jia, F., & Liu, H. (2024). Bayesian approach to piecewise growth mixture modeling: Issues and applications in school psychology. <i>Journal of School Psychology, 107.</i> 101366. https://doi.org/10.1016/j.jsp.2024.101366			

4. **Heo, I.**, Jia, F., & Depaoli, S. (2024). Performance of model fit and selection indices for Bayesian piecewise growth modeling with missing data. *Structural Equation Modeling: A Multidisciplinary Journal*, *31*(3). 455-476. https://doi.org/10.1080/10705511.2023.2264514

3. Depaoli, S., Jia, F., & **Heo, I.** (2023). Detecting model misspecification in Bayesian piecewise growth models. *Structural Equation Modeling: A Multidisciplinary Journal, 30*(4). 574-591. https://doi.org/10.1 080/10705511.2022.2144865

2. **Heo, I.**, Jia, F., & Depaoli, S. (2023). Book review of *Longitudinal structural equation modeling with Mplus: A latent state-trait perspective* by Geiser. *Psychometrika*, *88*(2), 733-737. https://doi.org/10.1007/s11336-022-09897-z

1. Liu, R., **Heo, I.**, Liu, H., Shi, D., & Jiang, Z. (2023). Applying negative binomial distribution in diagnostic classification models for analyzing count data. *Applied Psychological Measurement*, 47(1), 64-75. https://www.doi.org/10.1177/01466216221124604

SUBMITTED5. Heo, I., Simons, J.-W., & Liu, H. (2024). Bayesian model averaging in exponential random graphARTICLESmodels [Manuscript submitted for publication]. Department of Psychological Sciences, University of
California, Merced.

4. **Heo, I.**, Jia, F., & Depaoli, S. (2024). *Recovering knot placements in Bayesian piecewise growth models with missing data* [Manuscript submitted for publication]. Department of Psychological Sciences, University of California, Merced.

3. Liu, H., **Heo, I.**, Depaoli, S., & Ivanov, A. (2024). *Parameter recovery for misspecified latent mediation models in the Bayesian framework* [Manuscript submitted for publication]. Department of Psychological Sciences, University of California, Merced.

2. Liu, H., **Heo, I.**, Ivanov, A., & Depaoli, S. (2024). *Model assumption violations in Bayesian latent mediation analysis: An exploration of Bayesian SEM fit indices and PPP* [Manuscript submitted for publication]. Department of Psychological Sciences, University of California, Merced.

1. **Heo, I.**, Liu, R., Liu, H., Depaoli, S., & Jia, F. (2024). *A note on latent state-trait theory framework in piecewise growth models* [Manuscript submitted for publication]. Department of Psychological Sciences, University of California, Merced.

TUTORIALS 11. Koch, M., Heo, I., & van Kesteren, E. J. (2022). Latent growth curve modeling (LGCM) in JASP. JASP - A Fresh Way to Do Statistics. https://jasp-stats.org/2022/02/22/latent-growth-curve-modeling-lgcmin-jasp/

10. Koch, M., **Heo, I.**, & van Kesteren, E. J. (2022). Multiple indicators multiple causes (MIMIC) model in JASP. *JASP - A Fresh Way to Do Statistics*. https://jasp-stats.org/2022/02/01/multiple-indicators-multip le-causes-mimic-model-in-jasp/

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

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

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

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

5. **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

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

3. **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

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

1. **Heo, I.**, Veen, D., & van de Schoot, R. (2020). Tutorial: R for beginners. *Zenodo*. https://doi.org/10.5 281/zenodo.3963824

PEER-REVIEWED8. Heo, I., Jia, F., & Depaoli, S. (2024, May 23-26). Advances in detecting misfit in Bayesian piecewiseCONFERENCEgrowth curve models. In H. Liu (Chair) & S. Depaoli (Discussant), Model fit assessment of Bayesian struc-
tural equation modeling [Symposium]. 36th Annual Convention of the Association for Psychological
Science, San Francisco, CA, USA.

7. Liu, H., **Heo, I.**, Ivanov, A., & Depaoli, S. (2024, May 23-26). Misspecification in Bayesian latent mediation analysis: An exploration of Bayesian fit and comparison fit indices. In H. Liu (Chair) & S. Depaoli (Discussant), *Model fit assessment of Bayesian structural equation modeling* [Symposium]. 36th Annual Convention of the Association for Psychological Science, San Francisco, CA, USA.

6. Jauregui, M., **Heo, I.**, Depaoli, S., & Liu, H. (2024, May 23-26). *The final class model depends on the index: Exploring Bayesian model fit index performance in growth mixture modeling* [Poster presentation]. 36th Annual Convention of the Association for Psychological Science, San Francisco, CA, USA.

5. **Heo, I.**, Jia, F., & Depaoli, S. (2023, March 15-17). *On evaluating the performance of model fit and selection indices for Bayesian piecewise growth modeling: The effect of model misspecification and missing data* [Paper presentation]. Structural Equation Modeling Working Group Conference, Bielefeld, Germany.

4. **Heo, I.**, Jia, F., & Depaoli, S. (2023, March 9-11). *Detecting model misspecification in Bayesian piecewise growth models with missing data: Sensitivity of model fit and selection indices* [Poster presentation]. 4th International Convention of Psychological Science, Brussels, Belgium.

3. **Heo, I.**, & Liu, R. (2023, March 9-11). Analyzing ordinal data to classify individuals and track their changes using polytomous diagnostic classification modeling: A Bayesian hidden Markov approach [Poster presentation]. 4th International Convention of Psychological Science, Brussels, Belgium.

2. **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 Annual Convention of the Association for Psychological Science, Chicago, IL, USA.

1. 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]. 106th Annual Meeting of the American Educational Research Association, San Diego, CA, USA.

INSTITUTIONAL8. Heo, I. (2024, September 11). Deep learning-based multiple imputation robust to missing data mech-
anisms in structural equation modeling. Quantitative Methods, Measurement, and Statistics Brownbag
Series, Department of Psychological Sciences, University of California, Merced, Merced, CA, USA.

7. **Heo, I.** (2024, March 6). *On the advance and promise of analyzing psychological text data.* Quantitative Methods, Measurement, and Statistics Brownbag Series, Department of Psychological Sciences, University of California, Merced, Merced, CA, USA.

6. **Heo, I.** (2023, September 27). A gentle introduction to Monte Carlo simulation methods using *R* and *Mplus*. Quantitative Methods, Measurement, and Statistics Brownbag Series, Department of Psychological Sciences, University of California, Merced, Merced, CA, USA.

5. **Heo, I.** (2023, September 13). On the recovery of knot locations for Bayesian piecewise growth modeling with missing data. Quantitative Methods, Measurement, and Statistics Brownbag Series, Department of Psychological Sciences, University of California, Merced, Merced, CA, USA.

4. **Heo, I.** (2023, January 25). *The latest update on the performance of model comparison tools in Bayesian structural equation modeling*. Quantitative Methods, Measurement, and Statistics Brownbag Series, Department of Psychological Sciences, University of California, Merced, Merced, CA, USA.

3. **Heo, I.** (2022, April 29). *The impact of model misspecification and missing data on Bayesian piecewise growth modeling*. Annual First-Year Research Talk, Department of Psychological Sciences, University of California, Merced, Merced, CA, USA.

2. **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, USA.

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

TEACHING Department of Psychological Sciences, University of California, Merced

Guest Lecturer

EXPERIENCE

	 PSY 202A: Advanced Psychological Statistics I (graduate) * Introduction to R and RStudio * Introduction to tidyverse and R Markdown 	Fall 2024		
	 * Summarizing and Visualizing Data Using R 			
	* Regression Analysis and ANOVA Using R			
	- PSY 202B: Advanced Psychological Statistics II (graduate)	Spring 2024, 2025		
	* Confirmatory Factor Analysis, Path Analysis, and Structural Equation Modeling Using Mplus			
	* Multilevel Modeling Using Mpius – ECON 271: Economics and Data Science (graduate)	Spring 2025		
	 Latent Dirichlet Allocation for Text Mining and Broader Application 	spring 2023		
	Lab Instructor			
	– PSY 010: Analysis of Psychological Data (undergraduate)	Fall 2021, Spring 2022, 2025		
	– PSY 015: Research Methods in Psychology (undergraduate)	Fall 2023		
	Department of Methodology and Statistics, Utrecht University			
	• Lab Instructor	0 1 0000		
	- Advanced Research Methods and Statistics for Psychology (bachelor)	Spring 2020		
	• Lab Assistant	S		
	 Advanced Longitudinal Modeling in Mplus (master) Introduction to Structural Equation Modeling Using Mplus (master) 	Summer 2021		
Ad Hoc	Journals			
Reviewing	Multivariate Behavioral Research			
	Psychological Methods			
	Structural Equation Modeling: A Multidisciplinary Journal			
	Conferences			
	American Educational Research Association - Division D			
	National Council on Measurement in Education			
INSTITUTIONAL	University of California. Merced			
Service	Member, Faculty Search Committee in Quantitative Psychology	2023-2024		
	• Manager, Quantitative Program X Account @UCM QuantPsych	2023-2025		
	• Panelist, Psi Chi Graduate Student Panel	2021, 2023, 2024		