

Ihnwhi Heo

Curriculum Vitae in September 2025

CONTACT INFORMATION	School of Social Sciences, Humanities and Arts University of California, Merced 5200 North Lake Road Merced, CA 95343, USA	ihéo2@ucmerced.edu ihnwhiheo.github.io orcid.org/0000-0002-6123-3639 
EDUCATION	University of California, Merced, USA Ph.D. Candidate in Quantitative Methods, Measurement, and Statistics Dissertation: <i>Advanced methods for implementation of Bayesian growth mixture modeling</i> Advisors: Dr. Sarah Depaoli and Dr. Fan Jia Utrecht University, The Netherlands M.Sc. in Methodology and Statistics , <i>Cum Laude</i> Thesis: <i>All models are uncertain, but averaging is useful: Bayesian multi-model inference in structural equation models with bridge sampling</i> Supervisor: prof. dr. Eric-Jan Wagenmakers (University of Amsterdam) Sungkyunkwan University, South Korea B.A. in Psychology, <i>Highest Honors</i>	May 2026 (Expected) July 2021 August 2019
AWARDS AND FELLOWSHIPS	Professional Organizations <ul style="list-style-type: none">• APA Dissertation Research Award, American Psychological Association• SMEP Dissertation Research Grant, Society of Multivariate Experimental Psychology• Nomination for Open Science Award, Open Science Community Utrecht• Scholarship for GESIS Summer School, European Survey Research Association Universities <ul style="list-style-type: none">• Psychological Sciences Dissertation Fellowship, University of California, Merced• 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 Fellowship, University of California, Merced• Professional Development Award, University of California, Merced• Utrecht Excellence Scholarship, Utrecht University• Presidential Award for Scholarly Excellence, Sungkyunkwan University• Best Undergraduate Research Project Award, Sungkyunkwan University• Alumni Scholarship for Academic and Research Excellence, Sungkyunkwan University• Academic Achievement Scholarship, Sungkyunkwan University• Academic Excellence Scholarship, Sungkyunkwan University	2025 2025 2024 2020 2025 2024–2025 2024–2025 2022–2023 2023 2022 2022–2025 2021–2024 2019–2021 2019 2018 2018 2018 2016–2018
PEER-REVIEWED ARTICLES	11. Heo, I. , Simons, J.-W., & Liu, H. (2025). A tutorial on Bayesian model averaging for exponential random graph models. <i>British Journal of Mathematical and Statistical Psychology</i> . Advance online publication. https://doi.org/10.1111/bmsp.70007 10. Heo, I. , Liu, R., Liu, H., Depaoli, S., & Jia, F. (2025). A study of latent state-trait theory framework in piecewise growth models. <i>Applied Psychological Measurement</i> . Advance online publication. https://doi.org/10.1177/01466216251360565	

9. **Heo, I.**, Jia, F., & Depaoli, S. (2025). Recovering knot placements in Bayesian piecewise growth models with missing data. *Behavior Research Methods*, 57(7). 1–27. <https://doi.org/10.3758/s13428-025-02716-0>
 8. Liu, H., **Heo, I.**, Ivanov, A., & Depaoli, S. (2025). Model assumption violations in Bayesian latent mediation analysis: An exploration of Bayesian SEM fit indices and PPP. *Structural Equation Modeling: A Multidisciplinary Journal*, 32(5). 866–896. <https://doi.org/10.1080/10705511.2025.2503789>
 7. Liu, H., **Heo, I.**, Depaoli, S., & Ivanov, A. (2025). Parameter recovery for misspecified latent mediation models in the Bayesian framework. *Structural Equation Modeling: A Multidisciplinary Journal*, 32(4). 618–637. <https://doi.org/10.1080/10705511.2025.2475490>
 6. **Heo, I.**, Pfadt, J. M., & Wagenmakers, E.-J. (2025). Contributed discussion of “Sparse Bayesian factor analysis when the number of factors is unknown”. *Bayesian Analysis*, 20(1). 295–296. <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. *Journal of School Psychology*, 107. 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/10.1080/10705511.2022.2144865>
 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>
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|-----------------------------|---|
| MANUSCRIPTS
UNDER REVIEW | <ol style="list-style-type: none"> 2. Jia, F., Heo, I., Depaoli, S., & Li, Y. (2025). <i>Latent mediation analysis with missing data: A comparison of Bayesian SEM and Monte Carlo-adjusted frequentist approaches</i> [Manuscript submitted for publication]. Department of Psychological Sciences, University of California, Merced. 1. Depaoli, S., Heo, I., Jauregui, M., Liu, H., & Jia, F. (2025). <i>A comprehensive evaluation of model selection indices for class enumeration in Bayesian latent growth mixture models</i> [Manuscript submitted for publication]. Department of Psychological Sciences, University of California, Merced. |
| TUTORIALS | <ol style="list-style-type: none"> 11. Koch, M., Heo, I., & van Kesteren, E. J. (2022). Latent growth curve modeling (LGCM) in JASP. <i>JASP: A Fresh Way to Do Statistics</i>. https://jasp-stats.org/2022/02/22/latent-growth-curve-modeling-lgcm-in-jasp/ 10. Koch, M., Heo, I., & van Kesteren, E. J. (2022). Multiple indicators multiple causes (MIMIC) model in JASP. <i>JASP: A Fresh Way to Do Statistics</i>. https://jasp-stats.org/2022/02/01/multiple-indicators-multiple-causes-mimic-model-in-jasp/ 9. Heo, I., & van de Schoot, R. (2020). Tutorial: Advanced Bayesian regression in jamovi. <i>Zenodo</i>. 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/10.5281/zenodo.3963824>

GRANTS	Collaborator , <i>Bayesian model averaging for structural equation models</i> Walter Benjamin Grant, German Research Foundation (DFG) Principal Investigator: Julius M. Pfadt (University of Amsterdam)	2023–2025 Funded
CONFERENCE PRESENTATIONS	10. Heo, I. , Simons, J.-W., & Liu, H. (2025, August 7–9). <i>A Bayesian multi-model inferential approach to exponential random graph modeling</i> [Poster presentation]. 133rd Annual Convention of the American Psychological Association, Denver, CO, USA. 9. Heo, I. , Jia, F., & Depaoli, S. (2025, May 22–25). <i>When will change: A nuanced understanding of turning points through Bayesian piecewise growth models</i> [Flash talk]. 37th Annual Convention of the Association for Psychological Science, Washington, DC, USA. 8. Heo, I. , Jia, F., & Depaoli, S. (2024, May 23–26). Advances in detecting misfit in Bayesian piecewise growth curve models. In H. Liu (Chair) & S. Depaoli (Discussant), <i>Model fit assessment of Bayesian structural equation modeling</i> [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), <i>Model fit assessment of Bayesian structural equation modeling</i> [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). <i>The final class model depends on the index: Exploring Bayesian model fit index performance in growth mixture modeling</i> [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). <i>On evaluating the performance of model fit and selection indices for Bayesian piecewise growth modeling: The effect of model misspecification and missing data</i> [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.

INSTITUTIONAL PRESENTATIONS

10. **Heo, I.** (2025, September 24). *Bayesian model averaging for exponential random graph models: Theoretical framework and empirical illustration*. Quantitative Methods, Measurement, and Statistics Brownbag Series, Department of Psychological Sciences, University of California, Merced, Merced, CA, USA.
9. **Heo, I.** (2025, February 5). *Evaluating Bayesian informative hypotheses in latent growth models using JASP*. Quantitative Methods, Measurement, and Statistics Brownbag Series, Department of Psychological Sciences, University of California, Merced, Merced, CA, USA.
8. **Heo, I.** (2024, September 11). *Deep learning-based multiple imputation robust to missing data mechanisms 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 EXPERIENCE	Department of Psychological Sciences, University of California, Merced		
	• Instructor of Record		
	– PSY 010: Analysis of Psychological Data (undergraduate)		Spring 2026
	• Guest Lecturer		
	– PSY 010: Analysis of Psychological Data (undergraduate)		Spring 2025
	* Interval Estimation with Confidence Intervals		
	– PSY 202A: Advanced Psychological Statistics I (graduate)		Fall 2024
	* Introduction to R and RStudio		
	* Introduction to the tidyverse and R Markdown		
	* Summarizing and Visualizing Data in R		
	* Regression Analysis and ANOVA in R		
	– PSY 202B: Advanced Psychological Statistics II (graduate)		Spring 2024, 2025
	* Confirmatory Factor Analysis, Path Analysis, and Structural Equation Modeling in <i>Mplus</i>		
	* Multilevel Modeling in <i>Mplus</i>		
	– ECON 271: Economics and Data Science (graduate)		Spring 2025
	* Advanced Data Science Tools for Applied Economic Research		
	• 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		
	– Advanced Research Methods and Statistics for Psychology (bachelor)		Spring 2020
	• Lab Assistant		
	– Advanced Longitudinal Modeling in <i>Mplus</i> (master)		Summer 2021
	– Introduction to Structural Equation Modeling Using <i>Mplus</i> (master)		Summer 2021
PEDAGOGICAL TRAINING	Center for Engaged Teaching and Learning, University of California, Merced		
	• Certification in Advanced Pedagogy		Spring 2023
	• Certification in Principles of Pedagogy		Fall 2022
	• Certification in Fundamentals of Teaching		Fall 2021
SERVICE TO PROFESSION	Journal Reviewer		
	• <i>Advances in Methods and Practices in Psychological Science</i>		
	• <i>BMC Medical Research Methodology</i>		
	• <i>Multivariate Behavioral Research</i>		
	• <i>Psychological Methods</i>		
	• <i>Structural Equation Modeling: A Multidisciplinary Journal</i>		
	Conference Reviewer		
	• American Educational Research Association–Division D		
	• National Council on Measurement in Education		
	Preprint Server Moderator		
	• PsyArXiv		
INSTITUTIONAL SERVICE	University of California, Merced		
	Department Service		
	• Student Representative, Faculty Search Committee in Quantitative Psychology		2023–2024
	• Manager, Quantitative Program ✕ Account @UCM_QuantPsych		2023–2026
	• Panelist, Psi Chi Graduate Student Panel		2021–2025