

Ihnwhi Heo

Curriculum Vitae in April 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
FELLOWSHIPS AND AWARDS	Professional Organizations <ul style="list-style-type: none">SMEP Dissertation Research Grant, Society of Multivariate Experimental PsychologyNomination for Open Science Award, Open Science Community UtrechtScholarship for GESIS Summer School, European Survey Research Association Universities <ul style="list-style-type: none">Outstanding Graduate Student Award, University of California, MercedPublication Award in Quantitative Psychology, University of California, MercedGraduate Student Opportunity Program Fellowship, University of California, MercedGraduate Student Association Travel Award, University of California, MercedWilliam R. Shadish Award for Leadership and Service, University of California, MercedSummer Research Fellowship, University of California, MercedProfessional Development Award, University of California, MercedUtrecht Excellence Scholarship, Utrecht UniversityPresidential Award for Scholarly Excellence, Sungkyunkwan UniversityBest Undergraduate Research Project Award, Sungkyunkwan UniversityAlumni Scholarship for Academic and Research ExcellenceAcademic Achievement Scholarship, Sungkyunkwan UniversityAcademic Excellence Scholarship, Sungkyunkwan University	2025 2024 2020 2024 2024 2022–2023 2023 2022 2022–2025 2021–2024 2019–2021 2019 2018 2018 2018 2016–2018
PEER-REVIEWED ARTICLES	7. Liu, H., Heo, I. , Depaoli, S., & Ivanov, A. (2025). Parameter recovery for misspecified latent mediation models in the Bayesian framework. <i>Structural Equation Modeling: A Multidisciplinary Journal</i> . Advance online publication. 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”. <i>Bayesian Analysis</i> , 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>

SUBMITTED ARTICLES

4. **Heo, I.**, Simons, J. W., & Liu, H. (2025). *A tutorial on Bayesian model averaging for exponential random graph models* [Manuscript submitted for publication]. Department of Psychological Sciences, University of California, Merced.
3. **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.
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-lgcm-in-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-multiple-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/10.5281/zenodo.3963824>

- CONFERENCE PRESENTATIONS
10. **Heo, I.**, Simons, J. W., & Liu, H. (2025, August 7–9). *A Bayesian multi-model inferential approach to exponential random graph modeling* [Poster presentation]. 133rd Annual Convention of the American Psychological Association, Denver, CO, USA.
 9. **Heo, I.**, Jia, F., & Depaoli, S. (2025, May 22–25). *When will change: A nuanced understanding of turning points through Bayesian piecewise growth models* [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), *Model fit assessment of Bayesian structural 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.

- INSTITUTIONAL PRESENTATIONS
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

- Guest Lecturer
 - PSY 010: Analysis of Psychological Data (undergraduate) Spring 2025
 - PSY 202A: Advanced Psychological Statistics I (graduate) Fall 2024
 - PSY 202B: Advanced Psychological Statistics II (graduate) Spring 2024, 2025
- 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 Mplus (master) Summer 2021
 - Introduction to Structural Equation Modeling Using Mplus (master) Summer 2021

PEDAGOGICAL TRAINING	Center for Engaged Teaching and Learning, University of California, Merced <ul style="list-style-type: none"> • Certification in Advanced Pedagogy • Certification in Principles of Pedagogy • Certification in Fundamentals of Teaching 	Spring 2023 Fall 2022 Fall 2021
PEER REVIEW EXPERIENCE	Journals <ul style="list-style-type: none"> • <i>Advances in Methods and Practices in Psychological Science</i> • <i>Multivariate Behavioral Research</i> • <i>Psychological Methods</i> • <i>Structural Equation Modeling: A Multidisciplinary Journal</i> Conferences <ul style="list-style-type: none"> • American Educational Research Association–Division D • National Council on Measurement in Education 	
INSTITUTIONAL SERVICE	University of California, Merced <ul style="list-style-type: none"> • Student Representative, Faculty Search Committee in Quantitative Psychology • Manager, Quantitative Program ✕ Account @UCM_QuantPsych • Panelist, Psi Chi Graduate Student Panel 	2023–2024 2023–2026 2021–2025