

# Ihnwhi Heo

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RESEARCH INTERESTS	Bayesian Inference; Structural Equation Modeling; Piecewise Growth Modeling; Mixture Modeling; Missing Data Analysis; Model Evaluation
EDUCATION	<div> <b>University of California, Merced, USA</b> May 2026            Ph.D. Candidate in <a href="#">Quantitative Methods, Measurement, and Statistics</a> (Expected)            Advisors: Dr. <a href="#">Sarah Depaoli</a> and Dr. <a href="#">Fan Jia</a> </div> <div> <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. <a href="#">Eric-Jan Wagenmakers</a> (University of Amsterdam)         </div> <div> <b>Sungkyunkwan University, South Korea</b> August 2019            B.A. in Psychology, <i>Highest Honors</i> </div>
PEER-REVIEWED ARTICLES	<p><b>Heo, I.</b>, Jia, F., &amp; Depaoli, S. (2023). Performance of model fit and selection indices for Bayesian piecewise growth modeling with missing data. <i>Structural Equation Modeling: A Multidisciplinary Journal</i>. Advance online publication. <a href="https://doi.org/10.1080/10705511.2023.2264514">https://doi.org/10.1080/10705511.2023.2264514</a></p> <p>Depaoli, S., Jia, F., &amp; <b>Heo, I.</b> (2023). Detecting model misspecification in Bayesian piecewise growth models. <i>Structural Equation Modeling: A Multidisciplinary Journal</i>, 30(4). 574-591. <a href="https://doi.org/10.1080/10705511.2022.2144865">https://doi.org/10.1080/10705511.2022.2144865</a></p> <p><b>Heo, I.</b>, Jia, F., &amp; Depaoli, S. (2023). Review of <i>Longitudinal structural equation modeling with Mplus: A latent state-trait perspective</i>. <i>Psychometrika</i>, 88(2), 733-737. <a href="https://doi.org/10.1007/s11336-022-09897-z">https://doi.org/10.1007/s11336-022-09897-z</a></p> <p>Liu, R., <b>Heo, I.</b>, Liu, H., Shi, D., &amp; Jiang, Z. (2023). Applying negative binomial distribution in diagnostic classification models for analyzing count data. <i>Applied Psychological Measurement</i>, 47(1), 64-75. <a href="https://www.doi.org/10.1177/01466216221124604">https://www.doi.org/10.1177/01466216221124604</a></p>
SUBMITTED ARTICLES	<b>Heo, I.</b> , Depaoli, S., Jia, F., & Liu, H. (2023). <i>Bayesian approach to piecewise growth mixture modeling: Issues and applications in school psychology</i> [Manuscript submitted for publication]. Department of Psychological Sciences, University of California, Merced.
TUTORIALS	<p>Koch, M., <b>Heo, I.</b>, &amp; van Kesteren, E. J. (2022). Latent growth curve modeling (LGCM) in JASP. <i>JASP - A Fresh Way to Do Statistics</i>. <a href="https://jasp-stats.org/2022/02/22/latent-growth-curve-modeling-lgcm-in-jasp/">https://jasp-stats.org/2022/02/22/latent-growth-curve-modeling-lgcm-in-jasp/</a></p> <p>Koch, M., <b>Heo, I.</b>, &amp; van Kesteren, E. J. (2022). Multiple indicators multiple causes (MIMIC) model in JASP. <i>JASP - A Fresh Way to Do Statistics</i>. <a href="https://jasp-stats.org/2022/02/01/multiple-indicators-multiple-causes-mimic-model-in-jasp/">https://jasp-stats.org/2022/02/01/multiple-indicators-multiple-causes-mimic-model-in-jasp/</a></p> <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>

- 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. (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.
- 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.
- 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.
- 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

- 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.
- 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.
- 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.
- Heo, I.** (2022, April 29). *The impact of model misspecification and missing data on Bayesian piecewise growth modeling*. Annual Research Talk, Department of Psychological Sciences, University of California, Merced, Merced, CA, USA.
- 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.
- 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	<b>Department of Psychological Sciences, University of California, Merced</b>	
	Lab Instructor, Research Methods in Psychology (undergraduate)	Fall 2023
	Lab Instructor, Analysis of Psychological Data (undergraduate)	Fall 2021, Spring 2022
	<b>Department of Methodology and Statistics, Utrecht University</b>	
	Lab Assistant, Advanced Longitudinal Modeling in <i>Mplus</i> (master)	Summer 2021
	Lab Assistant, Introduction to Structural Equation Modeling Using <i>Mplus</i> (master)	Summer 2021
	Lab Instructor, Advanced Research Methods and Statistics for Psychology (bachelor)	Spring 2020
EDUCATOR TRAINING	<b>Center for Engaged Teaching and Learning, University of California, Merced</b>	
	Teaching Certification, Advanced Pedagogy	Spring 2023
	Teaching Certification, Principles of Pedagogy	Fall 2022
	Teaching Certification, Fundamentals of Teaching	Fall 2021
AD HOC REVIEWING	<b>Journal</b>	
	<i>Applied Psychological Measurement</i>	
	<i>Multivariate Behavioral Research</i>	
	<i>Psychological Methods</i>	
	<b>Conference</b>	
	American Educational Research Association - Division D	
	National Council on Measurement in Education	
INSTITUTIONAL SERVICE	<b>University of California, Merced</b>	
	Member, Faculty Search Committee in Quantitative Methods, Measurement, and Statistics	2023
	Moderator, Quantitative Program X Account <a href="#">@UCM_QuantPsych</a>	2023, 2024
	Panelist, Psi Chi Graduate Student Panel	2021, 2023
FELLOWSHIPS AND AWARDS	<b>Graduate Student Opportunity Program Fellowship</b> , University of California, Merced	2022-2023
	• University-wide fellowship for conducting research	
	<b>Graduate Student Association Travel Award</b> , University of California, Merced	2023
	<b>William R. Shadish Award for Leadership and Service</b> , University of California, Merced	2022
	<b>Summer Research Award</b> , University of California, Merced	2022, 2023
	<b>Professional Development Award</b> , University of California, Merced	2021, 2022, 2023
	<b>Utrecht Excellence Scholarship</b> , Utrecht University	2019, 2020
	• University-wide scholarship for academic excellence	
	<b>Scholarship for GESIS Summer School</b> , European Survey Research Association	2020
	<b>Presidential Award for Best Scholarly Achievement</b> , Sungkyunkwan University	2019
	• University-wide award for outstanding academic achievement	
	<b>Best Undergraduate Research Project Award</b> , Sungkyunkwan University	2018
	• Department-wide award for research excellence	
	<b>Scholarship for Students with Research Potential</b> , Sungkyunkwan University	2018
	<b>Academic Achievement Scholarship</b> , Sungkyunkwan University	2018
	<b>Academic Excellence Scholarship</b> , Sungkyunkwan University	2016, 2017, 2018