

# Ihnwhi Heo

## Curriculum Vitae in September 2024

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| CONTACT INFORMATION    | School of Social Sciences, Humanities and Arts<br>University of California, Merced<br>5200 North Lake Road<br>Merced, CA 95343, USA  | <a href="mailto:iheo2@ucmerced.edu">iheo2@ucmerced.edu</a><br><a href="https://github.com/ihnwhiheo">ihnwhiheo.github.io</a><br><a href="https://orcid.org/0000-0002-6123-3639">orcid.org/0000-0002-6123-3639</a>  |
| EDUCATION              | <b>University of California, Merced, USA</b><br>Ph.D. Candidate in <a href="#">Quantitative Methods, Measurement, and Statistics</a><br>Advisors: Dr. <a href="#">Sarah Depaoli</a> and Dr. <a href="#">Fan Jia</a><br><br><b>Utrecht University, The Netherlands</b><br>M.Sc. in <a href="#">Methodology and Statistics</a> , <i>Cum Laude</i><br>Thesis: <i>All models are uncertain, but averaging is useful: Bayesian multi-model inference in structural equation models with bridge sampling</i><br>Advisor: Prof. <a href="#">Eric-Jan Wagenmakers</a> (University of Amsterdam)<br><br><b>Sungkyunkwan University, South Korea</b><br>B.A. in Psychology, <i>Highest Honors</i>  | May 2026<br>(Expected)<br><br>July 2021<br><br>August 2019  |
| FELLOWSHIPS AND AWARDS | <b>Awarded by Universities</b> <ul style="list-style-type: none"><li>Outstanding Graduate Student Award, University of California, Merced</li><li>Publication Award in Quantitative Psychology, University of California, Merced</li><li>Graduate Student Opportunity Program Fellowship, University of California, Merced</li><li>Graduate Student Association Travel Award, University of California, Merced</li><li>William R. Shadish Award for Leadership and Service, University of California, Merced</li><li>Summer Research Award, University of California, Merced</li><li>Professional Development Award, University of California, Merced</li><li>Utrecht Excellence Scholarship, Utrecht University</li><li>Presidential Award for Best Scholarly Achievement, Sungkyunkwan University</li><li>Best Undergraduate Research Project Award, Sungkyunkwan University</li><li>Alumni Scholarship for Students with Research Potential, Sungkyunkwan University</li><li>Academic Achievement Scholarship, Sungkyunkwan University</li><li>Academic Excellence Scholarship, Sungkyunkwan University</li></ul> <b>Awarded by Professional Organizations</b> <ul style="list-style-type: none"><li>Scholarship for GESIS Summer School, European Survey Research Association</li></ul>  | 2024<br>2024<br>2022-2023<br>2023<br>2022<br>2022, 2023, 2024<br>2021, 2022, 2023<br>2019-2021<br>2019<br>2018<br>2018<br>2018<br>2016, 2017, 2018  |
| PEER-REVIEWED ARTICLES | 5. <b>Heo, I.</b> , 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</i> . Advance online publication. <a href="https://doi.org/10.1016/j.jsp.2024.101366">https://doi.org/10.1016/j.jsp.2024.101366</a><br><br>4. <b>Heo, I.</b> , Jia, F., & Depaoli, S. (2024). Performance of model fit and selection indices for Bayesian piecewise growth modeling with missing data. <i>Structural Equation Modeling: A Multidisciplinary Journal</i> , 31(3). 455-476. <a href="https://doi.org/10.1080/10705511.2023.2264514">https://doi.org/10.1080/10705511.2023.2264514</a><br><br>3. Depaoli, S., Jia, F., & <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><br><br>2. <b>Heo, I.</b> , Jia, F., & Depaoli, S. (2023). Book review of <i>Longitudinal structural equation modeling with Mplus: A latent state-trait perspective</i> by Geiser. <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> |   |

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

5. **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.

4. **Heo, I.**, Simons, J. -W., Shiflett, E., & Liu, H. (2024). *Bayesian model averaging for exponential random graph models* [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-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

7. **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.
6. 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.
5. 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.
4. **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.
3. **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.
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

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 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.

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| TEACHING<br>EXPERIENCE   | <b>Department of Psychological Sciences, University of California, Merced</b>             |                        |
|                          | • Guest Lecturer, Advanced Psychological Statistics I (graduate)                          | Fall 2024              |
|                          | • Guest Lecturer, Advanced Psychological Statistics II (graduate)                         | Spring 2024            |
|                          | • 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            |
| AD HOC<br>REVIEWING      | <b>Journal</b>  |                        |
|                          | • <i>Multivariate Behavioral Research</i>   |                        |
|                          | • <i>Psychological Methods</i>  |                        |
|                          | • <i>Structural Equation Modeling: A Multidisciplinary Journal</i>                        |                        |
|                          | <b>Conference</b>   |                        |
| INSTITUTIONAL<br>SERVICE | • American Educational Research Association - Division D                                  |                        |
|                          | • National Council on Measurement in Education  |                        |
|                          | <b>University of California, Merced</b>   |                        |
|                          | • Member, Faculty Search Committee in Quantitative Psychology                             | 2023-2024              |
|                          | • Moderator, Quantitative Program X Account <a href="#">@UCM_QuantPsych</a>               | 2023, 2024             |
|                          | • Panelist, Psi Chi Graduate Student Panel  | 2021, 2023, 2024       |