Sunthud Pornprasertmanit
CURRICULUM VITAE

CONTACT

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RESEARCH INTERESTS

I develop and evaluate statistical methods for structural equation modeling and multilevel modeling. My current research advances model fit evaluation, parceling strategies, and latent interaction modeling.

EDUCATION

Postdoctoral Research Associate. Institute for Measurement, Methodology, Analysis, and Policy (IMMAP), Texas Tech University, Lubbock, TX, USA. 2014 – 2015
Ph.D., Quantitative Psychology. University of Kansas, Lawrence, KS, USA. 2010 – 2014
M.S., Quantitative Psychology. Illinois State University, Normal, IL, USA. 2008 – 2010
B.S., Psychology. Chulalongkorn University, Bangkok, Thailand. 2002 – 2006

ACADEMIC APPOINTMENTS

Chulalongkorn University, Bangkok, Thailand
Lecturer, Faculty of Psychology. 2025 – Present
Invited Lecturer, Faculty of Psychology. 2016 – 2025
Invited Lecturer, Faculty of Education. 2016
Lecturer, Faculty of Psychology. 2006 – 2008

Industry and Entrepreneurship Experience
Founder, Probability Co. Ltd. (MindAnalytica). 2021–Present
Executive roles in manufacturing and FMCG sectors. 2015–2025

PEER-REVIEWED JOURNAL ARTICLES

Methodological Contributions

Heene, M., Maraun, M., Glushko, N., & **Pornprasertmanit, S.** (2024). The devil is mainly in the nuisance parameters: Performance of structural fit indices under misspecified structural models in SEM. *Meta-Psychology, 8*, 1-41.

Kelley, K., & **Pornprasertmanit, S.** (2016). Confidence intervals for population reliability coefficients: Evaluation of methods, recommendations, and software for homogeneous composite measures. *Psychological Methods, 21*, 69-92.

Pornprasertmanit, S., Lee, J., & Preacher, K. (2014). Ignoring clustering in confirmatory factor analysis: Some consequences for model fit and standardized parameter estimates. *Multivariate Behavioral Research, 49*, 518-543.

Pornprasertmanit, S., & Schneider, W. J. (2014). Accuracy in Parameter Estimation in Cluster Randomized Designs. *Psychological Methods, 19*, 356-379.

Schoemann, A. S., Miller, P. J., **Pornprasertmanit, S.,** & Wu, W. (2014). Using Monte Carlo simulations to determine power and sample size for planned missing designs. *International Journal of Behavioral Development, 38*, 471-479.

Geldhof, J., **Pornprasertmanit, S.,** Schoemann, A., & Little, T. D. (2013). Orthogonalizing through residual centering: Extended applications and caveats. *Educational and Psychological Measurement*, *73*, 27-46.

Hogue, C. M.*, **Pornprasertmanit, S.*,** Fry, M. D., Rhemtulla, M., & Little, T. D. (2013). Planned missing data designs for spline growth models in salivary cortisol research. *Measurement in Physical Education and Exercise Science, 17*, 310-325.

Pornprasertmanit, S., & Little, T. D. (2012). Determining directional dependency in causal associations. *International Journal of Behavioral Development, 36*, 313-322.

* Denotes shared senior author responsibility

Applied Research

Pimrabiab, P., Bovornusvakool, W., & **Pornprasertmanit, S.**, Triukose, S., & Srinutapong, S. (2021). The moderating effect of perceived online privacy risk on the relationship between merchant characteristics and willingness to disclose personal data. *Creative Business and Sustainability Journal, 43(4),* 38-59.

Inthuyos, N., Chaiwutikornwanich, A., & **Pornprasertmanit, S.** (2021). "Everyone else does it": Influence of colleagues' cheating and psychological mechanisms on individuals' cheating in an organization. *Kasetsart Journal of Social Sciences, 42,* 770-778.

Lonhlam, S., Suttiwan, P., & **Pornprasertmanit, S.** (2008). Relationships among trait anxiety, optimism, and self-esteem of university students. *Journal of Health Research, 22,* 91-96.

SOFTWARE

simsem (CRAN R package). Co-developer and former maintainer. Simulation framework for structural equation modeling.

semTools (CRAN R package). Co-developer and former maintainer. Provides advanced utilities for structural equation modeling.

PAWS: Power Analysis and Width of Confidence Interval for Sample Size Estimation. Developer.

MBESS (CRAN R package). Contributor to the ci.reliability() function for reliability interval estimation.

CONFERENCE PAPERS

Jorgensen, T. D., Garnier-Villarreal, M., **Pornprasertmanit, S.**, & Lee, J. (2019). Small-variance priors can prevent detecting important misspecifications in Bayesian confirmatory factor analysis. In M. Wiberg, S. A. Culpepper, R. Janssen, J. González, & D. Molenaar (Eds.), *Quantitative psychology: The 83rd annual meeting of the Psychometric Society* (pp. 255-263), New York, NY.

Pornprasertmanit, S., Wu, W., & Little, T. D. (2013). Using a Monte Carlo approach for nested model comparisons in structural equation modeling. In R. E. Millsap, L. A. van der Ark, D. M. Bolt, & C. M. Woods (Eds.), *New developments in quantitative psychology* (pp. 187-197). New York: Springer.

BOOKS AND TECHNICAL REPORTS

Pornprasertmanit, S. & Ariyabuddhipongs, K. (2024). *Structured interview manual*. Office of the Civil Service Commission, Thailand.

Pornprasertmanit, S. & Ariyabuddhipongs, K. (2024). *360-degree feedback manual*. Office of the Civil Service Commission, Thailand.

Wiratchai, N., Ruengtragul, A., Jetchamnongnuch, W., **Pornprasertmanit, P.**, Katechum, A., Pranompont, S., et al. (2009). *Meta-analysis of Thai education quality*. Bangkok, Thailand: Office of the Education Council, Ministry of Education, Thailand.

Pornprasertmanit, S., Suttiwan, P., Iamsupasit, S., Pisitsungkagarn, K., Lawpoonpat, C., Ariyabuddhiphongs, K., & Huansuriya, T. (2008). *The evaluation project of students' moral enhancement projects: Attitudes and Behaviors.* Bangkok, Thailand: Office of the Education Council, Ministry of Education, Thailand.

Pornprasertmanit, S. (2007). *Manual of writing in psychology*. Bangkok, Thailand: Faculty of Psychology, Chulalongkorn University.

PRESENTATIONS

Pornprasertmanit, S. (February, 2026). *Equivalence testing of expected parameter changes: A new way to assess model fit in SEM*. Paper presented at the Australasian Mathematical Psychology Conference, Singapore.

Pornprasertmanit, S. (December, 2024). *Modern competency assessment framework for corporate*. Webinar presented for FutureSkills Virtual Classroom, Bangkok, Thailand.

Pornprasertmanit, S. (December, 2021). *Research Proposal Writing Techniques*. Invited talk, Rabi Bhadanasak Research and Development Institute, Court of Justice, Bangkok, Thailand.

Pornprasertmanit, S., Wu, W., & Little, T. D. (October, 2012). *Taking into account sampling variability of model selection indices: A parametric bootstrap approach*. Poster presented at the Tenth Annual Society of Multivariate Experimental Psychology Graduate Student Pre-conference, Vancouver, Canada. (Honorable Mention)

Pornprasertmanit, S., Wu, W., & Little, T. D. (July, 2012). *Monte Carlo Approach to Model Fit Evaluation in Structural Equation Modeling: How to Specify Trivial Misspecification*. Paper presented at the 77th International Meeting of the Psychometric Society, Lincoln, NE.

Pornprasertmanit, S., Wu, W., & Little, T. D. (May, 2012). *On a Monte Carlo approach for model fit evaluation in SEM*. Poster presented at the American Psychological Society Annual Convention, Chicago, IL.

Pornprasertmanit, S., Lee, J. & Preacher, K. J. (August, 2011). *The effects of item intraclass correlation on multilevel confirmatory factor analysis: Is ignoring multilevel structure ever justified?* Poster presented at the annual meeting of the American Psychological Association, Washington, DC.

PREPRINTS

Pornprasertmanit, S., Schoemann, A. M., Geldhof, J., & Little, T. D. (2021). *Probing latent interactions estimated with a residual centering approach*. PsyArXiv preprint.

RESEARCH GRANTS

Pornprasertmanit, S. (2026: PI). *Young Researcher HPC Support Grant*. NSTDA Supercomputer Center (ThaiSC). 1,000 Service Hours (equivalent to 15,000 THB)

Pornprasertmanit, S. (2007: Co-PI). *The evaluation project of students' moral enhancement attempts*. Thai Ministry of Education.

Pornprasertmanit, S. (2007: Co-PI). *Meta-analysis of Thai educational quality*. Thai Ministry of Education.

AWARDS

Travel Award, Faculty of Psychology, Chulalongkorn University (2026).
Travel Award, Society of Multivariate Experimental Psychology (2012).
Travel Award, Center for Research Methods and Data Analysis, University of Kansas (2012).
Travel Award, American Psychological Association (2011).
First Class Honors with Gold Medal Award for Academic Distinction, Bachelor of Science in Psychology, Chulalongkorn University (2006).

TEACHING EXPERIENCE

Graduate Courses (Chulalongkorn University)

- Structural Equation Modeling (2023, 2025)
- Psychological Testing and Measurement (2017–2026)
- Introduction to Multilevel Modeling (2019, 2021, 2024)
- Statistics for Psychology I (2015)
- Statistics for Psychology II (2025–2026)
- Introduction to R (2016)
- Introduction to Simulation in R (2015)

Undergraduate Courses (Chulalongkorn University)

- Introduction to Statistics for Psychology (2007–2009)
- Intermediate Statistics for Psychology (2007, 2016)
- Psychological Testing and Measurement (2007–2008)
- Computer Applications in Psychology (2006–2007)
- Human Relations (2006–2007)

COMPUTATIONAL AND STATISTICAL EXPERTISE

Advanced statistical programming in R and Python; experience with Mplus; development of simulation frameworks; and high-performance computing environments.

PROFESSIONAL SERVICES

Journal Reviewer
Psychological Methods
Multivariate Behavioral Research
International Journal of Behavioral Development
Journal of Educational Psychology
Behavioral Research Methods

Methodology

Conference Reviewer
Society of Multivariate Experimental Psychology
Thailand National Conference on Psychology

Workshop and Short Courses (Instructor)
R statistical computing environment
High performance computing
lavaan for structural equation modeling
R for ANOVA and multiple regression

Statistical and Methodological Consulting (Institutional Roles)
Center for Research Methods and Data Analysis (University of Kansas)
Institute for Measurement, Methodology, Analysis, & Policy (Texas Tech University)
Faculty of Psychology (Chulalongkorn University)

Applied Statistical and Assessment Consulting (External Engagements)
Office of the Civil Service Commission, Thailand (multiple engagements)
Department of Juvenile Observation and Protection, Ministry of Social Development and Human Security
Office of the Education Council, Ministry of Education, Thailand
Siam Cement Group
Kasikornbank
FutureSkill

REFERENCES

Available upon request