

Sunthud Pornprasertmanit

CURRICULUM VITAE

CONTACT

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Google Scholar: <https://scholar.google.com/citations?user=v3De04YAAAAJ&hl=en>

EDUCATION

Jul 14 - Aug 15 **Postdoc Research Associate**, Institute for Measurement, Methodology, Analysis, and Policy, Texas Tech University
Aug 10 - May 14 **Ph.D., Quantitative Psychology**, University of Kansas
Jul 08 - May 10 **M.S., Quantitative Psychology**, Illinois State University
May 02 - May 06 **B.S., Psychology**, Chulalongkorn University, Thailand.

ACADEMIC EMPLOYMENT HISTORY

Aug 15 – Present **Invited Lecturer**, Faculty of Psychology, Chulalongkorn University.
Jan 16 – May 16 **Invited Lecturer**, Faculty of Education, Chulalongkorn University.
Jul 14 – Aug 15 **Postdoc Research Associate**, Institute for Measurement, Methodology, Analysis, and Policy, Texas Tech University
Aug 12 – May 14 **Teaching Assistant**, Department of Psychology, University of Kansas
Aug 10 – Dec 13 **Research Assistant**, Center for Research Methods and Data Analysis, University of Kansas
Aug 08 - May 10 **Teaching Assistant**, Department of Psychology, Illinois State University
Jun 09 - Jul 09 **Invited Lecturer**, Faculty of Psychology, Chulalongkorn University.
Oct 06 - Jul 08 **Lecturer**, Faculty of Psychology, Chulalongkorn University.
Jun 06 - Sep 06 **Laboratory Teacher**, Faculty of Psychology, Chulalongkorn University.
Jun 05 - Sep 05 **Student Intern**, Thanyarak Institute on Drug Abuse, Pathumthani, Thailand.

OTHER EMPLOYMENT HISTORY

- Apr 21 – Present **General Manager and Founder**, Probability Co. Ltd.
www.mindanalytica.com
- Apr 18 – Present **General Manager**, S.T.P. Stainless Co. Ltd.
- Jan 15 – Present **Project Director**, Big Apartment Co. Ltd.
- Apr 18 – Mar 19 **Senior Consultant**, Carabao Group PCL.
- Aug 16 – Mar 18 **Manager**, CEO Office, Carabao Group PCL.
- Jan 15 – Jul 16 **Commercial Director**, S.T.P. Stainless Co. Ltd.

PUBLICATIONS

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

- Pornprasertmanit, S.** & Wu, W. (2014). *The unified approach for model evaluation in structural equation modeling*. Doctoral Dissertation in Quantitative Psychology from the University of Kansas.
- 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.
- 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.**, Wu, W., & Little, T. D. (2013). Taking into account sampling variability of model selection indices: A parametric bootstrap approach. *Multivariate Behavioral Research*, 48, 168-169 (Abstract).
- 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.
- Pornprasertmanit, S.**, & Little, T. D. (2012). Determining directional dependency in causal associations. *International Journal of Behavioral Development*, 36, 313-322.
- Pornprasertmanit, S.** & Schneider, W. J. (2010). *Efficient sample size for power and desired accuracy in Cohen's d estimation in two-group cluster randomized design*. Master Thesis in Quantitative University from the Illinois State University.
- 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., Ariyabuddhipongs, 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.
- 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.
- Pornprasertmanit, S.** (2007). *Manual of writing in psychology*. Bangkok, Thailand: Faculty of Psychology, Chulalongkorn University.
- Pornprasertmanit, S.**, & Huansuriya, T. (2006). Prediction of substance abuse patients' adherence to therapy by patient satisfaction, patients' attitude towards the therapy: A case study of Thanyarak Institute. *Proceedings of the East-West Psychological Science Research Center*, 6, 19-27. Part of Senior project for graduating in bachelor degree of psychology from the Chulalongkorn University.
- Pornprasertmanit, S.**, Ariyabuddhipongs, K., Raweepattarakul, J., Srijaratrun, W., Patarawarekul, C., Komenake, P., et al. (2004). Study of cheating behavior in Thai

undergraduate students. *Proceedings of the East-West Psychological Science Research Center*, 4, 73-86.

* Denotes shared senior author responsibility

PRESENTATIONS

- Pornprasertmanit, S.** (September, 2023). *Formative measurement models*. Invited talk, Faculty of Psychology, Chulalongkorn University, Bangkok, Thailand.
- Pornprasertmanit, S.** (February, 2023). *Forced-choice ranking in psychological testing*. Invited talk, Faculty of Psychology, Chulalongkorn University, Bangkok, Thailand.
- Pornprasertmanit, S.** (March, 2022). *Psychological Testing Tools*. Invited talk, Faculty of Psychology, Chulalongkorn University, Bangkok, Thailand.
- Pornprasertmanit, S.** (December, 2021). *Research Proposal Writing Techniques*. Invited talk, Rabi Bhadanasak Research and Development Institute, Court of Justice, Bangkok, Thailand.
- Sriutaisuk, S., & **Pornprasertmanit, S.** (May, 2017). *Comparing Methods for Adding Control Variables in Structural Equation Modeling*. Paper presented at the Modern Modeling Methods (M3) Conference, Storrs, CT.
- Pornprasertmanit, S.** (January, 2016). *Missing data handling*. Invited talk, Faculty of Psychology, Chulalongkorn University, Bangkok, Thailand.
- Pornprasertmanit, S.**, & Kelley, K. (October, 2015). *Confidence intervals for population reliability coefficients: Evaluation of methods, recommendations, and software for homogeneous composite measures*. Invited talk, Faculty of Psychology, Chulalongkorn University, Bangkok, Thailand.
- Pornprasertmanit, S.**, & Wu, W. (October, 2015). *The unified approach for model evaluation in structural equation modeling*. Invited talk, Department of Educational Research and Psychology, Chulalongkorn University, Bangkok, Thailand.
- Schoemann, A. M., **Pornprasertmanit, S.**, & Miller, P. (May, 2014). *semTools: Useful tools for SEM in R*. Paper presented at the Modern Modeling Methods (M3) Conference, Storrs, CT.
- Pornprasertmanit, S.**, Schoemann, A. M., & Miller, P. (May, 2014). *c*
- Pornprasertmanit, S.** (April, 2014). *The unified approach for model evaluation in structural equation modeling*. Invited talk, Institute for Measurement, Methodology, Analysis, & Policy, Texas Tech University, Lubbock, TX.
- Pornprasertmanit, S.** (December, 2013). *Mediation*. Invited talk, Department of Psychology, Chulalongkorn University, Bangkok, Thailand.
- Pornprasertmanit, S.** (September, 2013). *Improve the use of practical fit indices in structural equation modeling*. Presentation given at the University of Kansas Quantitative Psychology Weekly Colloquium series, Lawrence, KS.

- Pornprasertmanit, S.**, & Wu, W. (April, 2013). *Statistical inference from nonrandom samples in psychological studies*. Presentation given at the University of Kansas Quantitative Psychology Weekly Colloquium series, Lawrence, KS.
- Little, T. D., Schoemann, A. M., **Pornprasertmanit, S.**, & Miller, P. (October, 2012). *simsem: SIMulated Structural Equation Modeling in R*. Paper given at the Tenth Annual Society of Multivariate Experimental Psychology, Vancouver, Canada.
- Pornprasertmanit, S.**, Wu, W., & Little, T. D. (October, 2012). *Taking into account sampling variability of model selection indices: A parametric bootstrap approach*. Poster (with honorable mention) given at the Tenth Annual Society of Multivariate Experimental Psychology Graduate Student Pre-conference, Vancouver, Canada.
- 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*. Presentation given at the 77th International Meeting of the Psychometric Society, Lincoln, NE.
- Schoemann, A., **Pornprasertmanit, S.**, & Miller, P. J. (July, 2012). *simsem: Simulated structural equation modeling in R*. Presentation given 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.
- Schoemann, A., Little, T. D., Rhemtulla, M., & **Pornprasertmanit, S.** (May, 2012). *From discrete conditions to continuous factors: Rethinking methodological simulations*. Presentation given at the Modern Modeling Methods Conference, Storrs, CT.
- Boulton, A.*, **Pornprasertmanit, S.***, Jorgensen, T. D.*, & Hughes, R.* (April, 2012). *Recent advances in model evaluation*. Presentation given at the University of Kansas Quantitative Psychology Weekly Colloquium series, Lawrence, KS.
- Schoemann, A., & **Pornprasertmanit, S.** (February, 2012). *simsem: An R package for the future generation of SEM*. Presentation given at the weekly colloquium in the Center of Research Methods and Data Analysis, University of Kansas.
- 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.
- Lee, J., **Pornprasertmanit, S.** & Preacher, K. J. (August, 2011). *Type I Error and Power for Multilevel Confirmatory Factor Analysis in Detecting Cross-level Measurement and Structural Invariance*. Poster presented at the annual meeting of the American Psychological Association, Washington, DC.
- Kelley, K., & **Pornprasertmanit, S.** (July, 2011). *An evaluation of confidence intervals of composite reliability coefficients*. Paper presented at Joint Statistical Meetings of the American Statistical Association, Miami, FL.

- Pornprasertmanit, S.**, & Lee, J. (April, 2011). *Is ignoring multilevel structure in confirmatory factor analysis ever justified?* Presentation given at the first CRMDA workgroup symposium series in the Center of Research Methods and Data Analysis, University of Kansas.
- Pornprasertmanit, S.**, Wu, W., & Little, T. D. (April, 2011). *Say goodbye to cutoffs: Using empirical sampling distributions of fit indices to determine appropriate level of model fits in structural equation modeling.* Presentation given at the weekly colloquium in the Center of Research Methods and Data Analysis, University of Kansas.
- Pornprasertmanit, S.** & Schneider, W. J. (October, 2010). *Efficient sample size for power and desired accuracy in Cohen's d estimation in two-condition cluster randomized design.* Presentation given at the weekly colloquium in the Center of Research Methods and Data Analysis, University of Kansas.
- Pornprasertmanit, S.** (March, 2010). *Constructing confidence interval of any parameters in structural equation modeling.* Presentation given at the Quantitative Professional Seminar at the Department of Psychology, Illinois State University.
- Pornprasertmanit, S.** & Schneider, W. J. (October, 2009). *Sample size estimation for two-group cluster randomized designs.* Presentation given at the Quantitative Professional Seminar at the Department of Psychology, Illinois State University.
- Pornprasertmanit, S.** (January, 2009). *Sample size for desired accuracy in Cohen's d estimation in multilevel designs.* Presentation given at the Quantitative Professional Seminar at the Department of Psychology, Illinois State University.
- Pornprasertmanit, S.**, Iamsupasit, S., Sutthiwan, P., Pisitsugkagarn, K., Ariyabuddhipongs, K., Laopoonphat, C., et al. (October, 2008) *The evaluation results of students' moral enhancement projects.* Presentation given at the Thai Ministry of Education, Thailand.
- Pornprasertmanit, S.**, Iamsupasit, S., Sutthiwan, P., Pisitsugkagarn, K., Ariyabuddhipongs, K., Laopoonphat, C., et al. (December, 2007) *The progress report of the evaluation project of students' moral enhancement projects.* Presentation given at the Thai Ministry of Education, Thailand.
- Pornprasertmanit, S.**, Iamsupasit, S., Sutthiwan, P., Pisitsugkagarn, K., Ariyabuddhipongs, K., Laopoonphat, C., et al. (August, 2007) *The data collection for the evaluation project of students' moral enhancement projects.* Presentation given at the Thai Ministry of Education, Thailand.
- Pornprasertmanit, S.** (September, 2007). *How to test and assess student morality.* Invited presentation at the Conference of the Moral Development, Ministry of Education, Bangkok, Thailand.
- Pornprasertmanit, S.** (August, 2007) *Descriptive statistics.* Presentation given for the job talk at the Faculty of Psychology, Chulalongkorn University, Thailand.

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UNPUBLISHED WORKS

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

Pornprasertmanit, S., Ariyabuddhipongs, K., Sutthiwan, P., Iamsupasit, S., Pisitsugkagarn, K., & Laopoonphat, C. (2007). *Decision making test for personnel selection*. Unpublished manuscript, Kasikornthai Bank, Bangkok, Thailand.

GRANTS RECEIVED

Pornprasertmanit, S., (2008: Co-PI). *Developing a Thai mindfulness scale*. Funded by the Faculty of Psychology, Chulalongkorn University, April 2008.

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

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

Pornprasertmanit, S., (2007: Co-PI). *The development of a decision making test for personnel selection*. Funded by the Kasikorn Bank. March 2007.

AWARD

- **Travel Award** by Society of Multivariate Experimental Psychology, 2012.
- **Travel Award** by CRMADA, University of Kansas, 2012.
- **Travel Award** by American Psychological Association, 2011.
- **First Class Honors with Gold Medal Award for Academic Distinction**, Bachelor of Science in Psychology, Faculty of Psychology, Chulalongkorn University, 2006 (Equivalent to *Summa Cum Laude* with *Top Rank* in Graduating Class)

SOFTWARES

simsem package for R

semTools package for R

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

Contributions for the *MBESS* package for R

TEACHING EXPERIENCE

Lecturer (Graduate Courses in Chulalongkorn University)

- Structural Equation Modeling: Fall 23
- Psychological Testing and Measurement: Spring 17, Spring 18, Spring 19, Spring 20, Spring 21, Fall 22, Fall 23

- Introduction to Multilevel Modeling: Fall 19, Fall 21
- Statistics for Psychology I: Fall 15
- Introduction to R: Spring 16
- Introduction to Simulation in R: Summer 15
- Intermediate Simulation in R: Fall 15

Lecturer (Undergraduate Courses in Chulalongkorn University)

- Introduction to Statistics for Psychology: Spring 07, Spring 08; Summer 09
- Intermediate Statistics for Psychology: Fall 07, Spring 16
- Psychological Testing and Measurement: Spring 07, Spring 08
- Computer Applications in Psychology: Fall 07, Fall 06
- Human Relations: Fall 07, Spring 07, Fall 06

Laboratory Teacher (Graduate Courses)

- Structural Equation Modeling: Fall 12
- Multilevel Modeling: Spring 13
- Analysis of Variance: Spring 14
- Introduction to Simulation in R: Summer 15
- Statistics for Psychology I: Fall 15
- Intermediate Simulation in R: Fall 15

Laboratory Teacher (Undergraduate Courses)

- Reasoning in Psychology Using Statistics (ISU): Fall 08, Spring 09, Fall 09, Spring 10
- Psychological Testing and Measurement (CU): Spring 06
- Cognitive Psychology: Spring 07, Spring 08

COMPUTER PROFICIENCY

Data Analysis: R, Mplus, Python, LISREL, SPSS, SAS, HLM, Mx, Matlab
Programming Python, Visual Basic, Java, R, C++

PROFESSIONAL AFFILIATIONS

APA Division 5: Evaluation: Measurement, and Statistics (2009-Present)
 American Psychological Society (2012-2014)

PROFESSIONAL SERVICES

Reviewers (Journals): Psychological Methods
 Multivariate Behavioral Research
 International Journal of Behavioral Development
 Journal of Educational Psychology
 Behavioral Research Methods

Reviewers (Presentations): Society of Multivariate Experimental Psychology
 Thailand's National Conference on Psychology

Workshop: R statistical computing environment (2010-2014)
 High performance computing (2011-2012)
 lavaan (2012)
 R for ANOVA and multiple regression (2013)

Statistical Consultant: CRMDA, University of Kansas (2010-2014)
 IMMAP, Texas Tech University (2014)

Testing Consultant: Thai Cement Company (2005-2006)
 Ministry of Information and Communication Technology,
 Thailand (2007)
 Kasikornthai Bank (2007)
 Ministry of Education, Thailand (2007-2008)
 Office of the Civil Service and Commission, Thailand (2015-
 2016, 2019)

REFERENCES

Available upon request