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About us

Professor

Network Analysis, Network Psychometric, Bayesian Clinical Trial

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Academic Appointment

- Yonsei University, Seoul, Republic of Korea. Assistant Professor, Department of Applied Statistics, Sept. 2019 - .
- University of Notre Dame, Notre Dame, Indiana. Assistant Professor, Department of Applied and Computational Mathematics and Statistics, July 2015 - May 2019.
- The Ohio State University Wexner Medical Center, Columbus, Ohio. Research Scientist, Center for Biostatistics, September 2014 - June 2015.
- The University of Texas MD Anderson Cancer Center, Houston, Texas. Postdoctoral Fellow, Biostatistics, August 2011 - August 2014. Mentor: Dr. Ying Yuan and Dr. Peter F. Thall

Education

- Texas A&M University, College Station, Texas. Ph.D., Statistics, August 2011. Advisor: Dr. Faming Liang
- Yonsei University, Seoul, Republic of Korea. M.A., Applied Statistics, February 2006. B.A., Applied Statistics, Business Administration, February 2004.

Publications

Students are italic. is the article where I am a corresponding author.

1. **Jin, I.H.** and Liang, F. (2013) Fitting social network models using varying truncation stochastic approximation MCMC algorithms. *Journal of Computational and Graphical Statistics*. Vol. 22. No. 4: pp. 927-952. **Selected JCGS highlights at the Interface 2012: Future of Statistical Computing**
2. Liang, F. and **Jin, I.H.** (2013) A Monte Carlo Metropolis-Hasting algorithms for sampling from distributions with intractable normalizing constants. *Neural Computation*, Vol. 25. No. 8: pp. 2199-2234.
3. **Jin, I.H.**, Yuan, Y., and Liang, F. (2013) Bayesian analysis for exponential random graph models using the adaptive exchange sampler. *Statistics and Its Interface*, Vol. 6: pp. 559-576.
4. **Jin, I.H.** and Liang, F. (2014) Use of SAMC for Bayesian analysis of statistical models with intractable normalizing constants. *Computational Statistics and Data Analysis*. Vol. 71: pp. 402-416.
5. **Jin, I.H.**, Liu, S., Thall, P. F., and Yuan, Y. (2014) Using data augmentation to facilitate conduct of phase I/II clinical trials with delayed outcomes. *Journal of the American Statistical Association*. Vol. 109. No. 506: pp. 525-536.
6. **Jin, I.H.**, Huo, L., Yin, G., and Yuan, Y. (2015) Phase I trial design for drug combinations with Bayesian model averaging. *Pharmaceutical Statistics*, Vol. 14. No. 2: pp. 109-119.
7. Liang, F., **Jin, I.H.**, Song, Q, and J.S. Liu. (2016) An adaptive exchange algorithm for sampling from distribution with intractable normalizing constants. *Journal of the American Statistical Association*. Vol. 111. No. 513: pp. 377-393.
8. **Jin, I.H.**, Yuan, Y., and Bandyopadhyay, D. (2016) A Bayesian hierarchical spatial model for dental caries assessments using non-gaussian Markov random fields. *The Annals of Applied Statistics*. Vol. 10. No. 2: pp. 884-905.

9. *Liu, H., Jin, I.H.* and, Zhang, Z. (2018) Structural Equation Modeling of Social Networks: Specification, Estimation, and Applications. *Multivariate Behavioral Research*, Vol. 53. No. 5: pp.714-730. **Awarded Tanaka Award: Most Outstanding Article in Multivariate Behavioral Research Volume 53.**
10. **Jin, I.H.** and Jeon, M. (2019) A doubly latent space joint model for local item and person dependence in item response analysis. *Psychometrika*, Vol. 84. No. 1: pp. 236-260.
11. Nam, J. H., Yun, J., **Jin, I.H.** , and Chung, D. (2020) hubViz: A Novel Tool for Hub-centric Visualization. *Chemometrics and Intelligent Laboratory Systems*. Vol. 203. 104071.
12. Yun, J., Shin, M., **Jin, I.H.** , and Liang, F. (2020) Stochastic approximation Hamiltonian Monte Carlo. *Journal of Statistical Computation and Simulation*. Vol. 90. No. 17: pp. 3135-3156.
13. *Che, C., Jin, I.H.*, and Zhang, Z. (2021) Network Mediation Analysis Using Model-based Eigenvalue Decomposition. *Structural Equation Modeling*. Vol. 28. No. 1: pp. 148-161.
14. *Liu, H., Jin, I.H.*, Zhang, Z, and Yuan, Y. (2021) Social Network Mediation Analysis: Latent Space Approach. *Psychometrika*. Vol. 86. No. 1: pp. 272-298.
15. Jeon, M., **Jin, I.H.**, Schweinberger, M., and Baugh, S. (2021) Mapping unobserved item-respondent interactions: A latent space item response model with interaction map. *Psychometrika*. Vol. 86. No. 2: pp. 378-403.
16. Y. Zhang, S. Cao, C. Zhang, **Jin, I.H.**, and Zang, Y. (2021) A Bayesian Adaptive Phase I/II Clinical Trial Design with Late-onset Competing Risk Outcomes. *Biometrics*. In Press. <https://doi.org/10.1111/biom.13347>
17. Park, J., **Jin, I.H.** , and Schweinberger, M. (2022) Bayesian Model Selection for High-Dimensional Ising Models, with Applications to Educational Data. *Computational Statistics and Data Analysis*. Vol. 125: Article 107325.
18. Park, J., *Jeon, Y.*, Shin, M., Jeon, M., and **Jin, I.H.** (2021) Bayesian Shrinkage for Functional Network Models, with Applications to Longitudinal Item Response Data. *Revision Journal of Computational and Graphical Statistics*. Accepted. ArXiv:2006.13698.

Submitted Manuscripts

1. **Jin, I.H.**, Jeon, M., Schweinberger, M, and Lin, L. (2021) Hierarchical Network Item Response Modeling for Discovering Differences Between