Preprints

Students funded by me are indicated by * and other students are indicated by **. Stewart* is tenure-track Assistant Professor, Department of Statistics, Florida State University. Babkin* is Senior Data & Applied Scientist, Microsoft.

- Stewart*, Jonathan R. and **Michael Schweinberger.** Pseudo-likelihood-based *M*-estimation of random graphs with dependent edges and parameter vectors of increasing dimension. Submitted to *The Annals of Statistics*. Under revision.
- Eli*, Sean and Michael Schweinberger. Non-asymptotic model selection for models of network data with parameter vectors of increasing dimension. Submitted to Journal of Statistical Planning and Inference.
- Jeon, Minjeong, Schweinberger, Michael, Baugh**, Samuel, and Eric Ho**. Latent process models for monitoring progress towards hard-to-measure targets, with application to online educational assessment data. To be submitted.
- With Johannes Lederer. Scalable model selection with a single observation of dependent random variables: pseudolikelihood-based Dantzig selectors.
- With Johathan R. Stewart*. Composite likelihood in dependent-data problems with parameter vectors of increasing dimension.

Accepted and published peer-reviewed articles

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- Jin, Ick Hoon, Jeon, Minjeong, **Schweinberger**, **Michael**, Yun, Jonghyun, and Lizhen Lin (2022). Multilevel network item response modeling for discovering differences between innovation and regular school systems in Korea. Accepted, *Journal of the Royal Statistical Society, Series C (Applied Statistics)*.
- Park, Jaewoo, Jin, Ick Hoon, and **Michael Schweinberger** (2022). Bayesian model selection for high-dimensional Ising models, with applications to educational data. *Computational Statistics & Data Analysis*, 165, 1–20.
- Schweinberger, Michael, Bomiriya**, Rashmi P., and Sergii Babkin* (2021). A semiparametric Bayesian approach to epidemics, with application to the spread of the coronavirus MERS in South Korea in 2015. Accepted, *Journal of Nonparametric Statistics*, 1–35.
- Jeon, Minjeong, Jin, Ick Hoon, **Schweinberger**, **Michael**, and Samuel Baugh** (2021). Mapping unobserved item-respondent interactions: A latent space item response model with interaction map. *Psychometrika*, 86, 378–403. The first three authors made equal contributions. The order of the first three authors is alphabetical.
- Schweinberger, Michael, Krivitsky, Pavel N., Butts, Carter T., and Jonathan R. Stewart* (2020). Exponential-family models of random graphs: Inference in finite, super, and infinite population scenarios. *Statistical Science*, 35, 627–662.
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- Schweinberger, Michael, Babkin*, Sergii, and Katherine B. Ensor (2017). High-dimensional multivariate time series with additional structure. *Journal of Computational and Graphical Statistics*, 26, 610–622.
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- Schweinberger, Michael, Stingo, Francesco C., and Maria P. Vitale (2021). Special issue on statistical analysis of networks. Statistical Methods & Applications (Journal of the Italian Statistical Society), 30, 1285–1288. Invited. Editor-reviewed.
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- Schweinberger, Michael (2019). Random graphs. Wiley StatsRef: Statistics Reference Online. Edited by Brian Everitt, Geert Molenberghs, Walter Piegorsch, Fabrizio Ruggeri, Marie Davidian, and Ron Kenett. Invited. Editor-reviewed.
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Schweinberger, Michael (2007). Statistical Methods for Studying the Evolution of Networks and Behavior. Ph.D. thesis, University of Groningen, NL.

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- Schweinberger, Michael, Krivitsky, Pavel N., and Carter T. Butts (2017). A note on the role of projectivity in likelihood-based inference for random graph models. The first two authors made equal contributions.
- Vu**, Duy Q. and **Michael Schweinberger** (2014). Model-based clustering of large random graphs with high-dimensional predictors.
- Schweinberger, Michael and Tom A.B. Snijders (2007). Random effects models for digraph panel data.