

## 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.

Nandy\*\*, Saikat, Holan, Scott H. and **Michael Schweinberger**. *A socio-demographic latent space approach to spatial data when geography is important but not all-important*. Submitted to the *Journal of the American Statistical Association*.

Grieshop\*\*, Nicholas, Feng\*\*, Yong, Hu, Guanyu and **Michael Schweinberger**. *A continuous-time stochastic process for high-resolution network data in sports*. Submitted to *Statistica Sinica*. **Invited**.

Eli\*, Sean and **Michael Schweinberger**. *Non-asymptotic model selection for models of network data with parameter vectors of increasing dimension*. Submitted to the *Journal of Statistical Planning and Inference*.

Jeon, Minjeong and **Michael Schweinberger**. *Latent process models for monitoring progress towards hard-to-measure targets, with applications to online educational assessment data*. To be revised and resubmitted to *The Annals of Applied Statistics*.

Stewart\*, Jonathan R. and **Michael Schweinberger**. Pseudo-likelihood-based  $M$ -estimation of random graphs with dependent edges and parameter vectors of increasing dimension. Revised and resubmitted to *The Annals of Statistics*.

## Accepted and published peer-reviewed articles

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**Schweinberger, Michael**, Bomiriya\*\*, Rashmi P., and Sergii Babkin\* (2022). A semiparametric Bayesian approach to epidemics, with application to the spread of the coronavirus MERS in South Korea in 2015. *Journal of Nonparametric Statistics*, 34, 628–662.

- 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. *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 71, 1225–1244.
- 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** (2022). Discussion to: “Bayesian graphical models for modern biological applications” by Yang Ni, Veerabhadran Baladandayuthapani, Marina Vannucci, and Francesco C. Stingo. *Statistical Methods & Applications (Journal of the Italian Statistical Society)*, 31, 253–260. **Invited. Editor-reviewed.**
- 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**, 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.**
- Schweinberger, Michael** and Jonathan R. Stewart\* (2020). Concentration and consistency results for canonical and curved exponential-family models of random graphs. *The Annals of Statistics*, 48, 374–396.
- 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.
- Schweinberger, Michael** (2020). Consistent structure estimation of exponential-family random graph models with block structure. *Bernoulli*, 26, 1205–1233.
- Babkin\*, Sergii, Stewart\*, Jonathan R., Long\*\*, Xiaochen, and **Michael Schweinberger** (2020). Large-scale estimation of random graph models with local dependence. *Computational Statistics & Data Analysis*, 152, 1–19.

- Schweinberger, Michael** (2020). Statistical inference for continuous-time Markov processes with block structure based on discrete-time network data. *Statistica Neerlandica*, 74, 342–362.
- Stewart\*, Jonathan R., **Schweinberger, Michael**, Bojanowski, Michal, and Martina Morris (2019). Multilevel networks facilitate statistical inference for curved ERGMs with geometrically weighted terms. *Social Networks*, 59, 98–119.
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- Schweinberger, Michael** and Pamela Luna\*\* (2018). hergm: Hierarchical exponential-family random graph models. *Journal of Statistical Software*, 85, 1–39.
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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.
- Schweinberger, Michael** and Mark S. Handcock (2015). Local dependence in random graph models: Characterization, properties and statistical inference. *Journal of the Royal Statistical Society, Series B (Statistical Methodology)*, 77, 647–676.
- Schweinberger, Michael**, Petrescu-Prahova, Miruna, and Duy Q. Vu\*\* (2014). Disaster response on September 11, 2001 through the lens of statistical network analysis. *Social Networks*, 37, 42–55.
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## Unpublished preprints

- 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.
- 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.