

Preprints under peer review

Students and postdoctoral scholars funded by me are indicated by *. Students and postdoctoral scholars funded by others are indicated by **.

Grieshop**, Nicholas, Feng**, Yong, Hu, Guanyu and **Michael Schweinberger**. A continuous-time stochastic process for high-resolution network data in sports. Decision by *Statistica Sinica* in October 2023: invited major revision. Under revision for *Statistica Sinica*. **Invited**.

Stewart*, Jonathan R. and **Michael Schweinberger**. Pseudo-likelihood-based M -estimation of random graphs with dependent edges and parameter vectors of increasing dimension. Decision by *The Annals of Statistics* in June 2023: invited major revision. Revision resubmitted to *The Annals of Statistics* in December 2023.

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 Annals of Applied Statistics* in September 2023.

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* in November 2021.

Accepted peer-reviewed and editor-reviewed publications

Students and postdoctoral scholars funded by me are indicated by *. Students and postdoctoral scholars funded by others are indicated by **.

Jeon, Minjeong and **Michael Schweinberger** (2024). Latent process models for monitoring progress towards hard-to-measure targets, with applications to mental health and online educational assessments. Accepted by *The Annals of Applied Statistics* in January 2024. **Equal contributions. The order of authors is alphabetical.**

Peer-reviewed and editor-reviewed publications

Students and postdoctoral scholars funded by me are indicated by *. Students and postdoctoral scholars funded by others are indicated by **.

- Schweinberger, Michael** and Cornelius Fritz* (2023). Discussion of “A tale of two datasets: Representativeness and generalisability of inference for samples of networks” by Pavel N. Krivitsky, Pietro Coletti, and Niel Hens. *Journal of the American Statistical Association*, 118, 2225–2227. **Invited. Editor-reviewed.**
- 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.
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- 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.
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- Schweinberger, Michael** and Pamela Luna** (2018). hergm: Hierarchical exponential-family random graph models. *Journal of Statistical Software*, 85, 1–39.
- Cao**, Ming, Chen, Yong, Fujimoto, Kayo, and **Michael Schweinberger** (2018). A two-stage working model strategy for network analysis under hierarchical exponential random graph models. *Proceedings of the 2018 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*, 290–298. Acceptance rate: 15%.
- 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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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.

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 di-graph panel data.