Preprints

Past and present students funded by me are indicated by *. Students funded by collaborators and others are indicated by **.

- Stewart*, Jonathan R. and **Michael Schweinberger.** Pseudo-likelihood-based *M*-estimation of random graphs with dependent edges and parameter vectors of increasing dimension. Submitted.
- Jin, Ick Hoon, Jeon, Minjeong, **Schweinberger, Michael**, and Lizhen Lin. Hierarchical network item response modeling for discovering differences between innovation and regular school systems in Korea. Submitted.
- Sean Eli* and Michael Schweinberger. Non-asymptotic model selection for models of network data with parameter vectors of increasing dimension. Submitted.
- Jeon, Minjeong, **Schweinberger**, **Michael**, Baugh**, Samuel, and Eric Ho**. Student learning through learning progression maps, 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.

Publications

Past and present students funded by me are indicated by *. Students funded by collaborators and others are indicated by **.

- 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.
- Park, Jaewoo, Jin, Ick Hoon, and **Michael Schweinberger** (2021+). Bayesian model selection for high-dimensional Ising models, with applications to educational data. Accepted, Computational Statistics & Data Analysis, 1–20.
- 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 have made equal contributions.
- Schweinberger, Michael (2021). Discussion of "Bayesian graphical models for modern biological applications" by Yang Ni, Veerabhadran Baladandayuthapani, Marina Vannucci, and Francesco C. Stingo. Statistical Methods & Applications, 1–7. Invited. Editorreviewed.
- **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 (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.

- **Schweinberger, Michael** (2020). Statistical inference for continuous-time Markov processes with block structure based on discrete-time network data. *Statistica Neerlandica*, 74, 342–362.
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- Schweinberger, Michael and Tom A.B. Snijders (2003). Settings in social networks: A measurement model. *Sociological Methodology*, 33, 307–341.

Other publications

- Schweinberger, Michael, Stingo, Francesco C., and Maria P. Vitale (2021). Special issue on Statistical Analysis of Networks. Preface by the Guest Editors. Statistical Methods & Applications, 1–4.
- Schweinberger, Michael (2007). Statistical Methods for Studying the Evolution of Networks and Behavior. Ph.D. thesis, University of Groningen, NL.

Unpublished preprints

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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 have made equal contributions.
- Vu**, Duy Q. and **Michael Schweinberger** (2014). Model-based clustering of large random graphs with high-dimensional predictors.
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