Andreas Bjerre-Nielsen

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Employment

University of Copenhagen
Assistant Professor in Economics and Social Data Science, 2018-current
Head of Studies for MSc. Social Data Science, 2019-current
Postdoctoral Researcher, 2016-2018
Paternity leaves: approx. 6 months 2016-2020.

Education

University of Copenhagen: Ph.D., Economics, 2016: "*Dynamics of homophily in friendship*" under supervision by Peter Norman Sørensen

Stanford University: Visiting Student Researcher working with Matthew Jackson at Dept. of Economics, 2014.

Barcelona Graduate School of Economics: M.A., Economics, 2012.

Teaching

University of Copenhagen
Seminar, 'Big Data, Econometrics and Machine Learning', 2019.
Social Data Science: Econometrics and Machine Learning, 2018-current.
Introduction to Social Data Science, 2017-current.
Seminar, 'Economics of the Social Web', 2013.

Supervision

University of Copenhagen: 20+ MSc students, actively 6 PhD students.

Grants for research

Danish Ministry of Children and Education: *Education Quant* [co-PI] 2021 total funding 11.5M DKK (with M. Ejrnæs [PI], K. Karlsson [co-PI]).

Danish Ministry of Taxation: *Optimal Tax Control with Selection* [PI] 2021 funded 1.4M DKK (with C.K. Thustrup [co-PI], L. Wier).

Danish Council for Independent Research: *Prediction based mechanism design and the problem of daycare assignment* 2020 funded 2.8M DKK (with M. Gørtz, J. Kennes [PI] and E. Mattana).

Economic Policy Research Network: a) *Leveraging prediction tools and information disclosure policies to improve school choice* [PI] 2020 funded 0.3M DKK (with D.D. Lassen and E. Chrisander); b) *Peer effects and social effects for students*, 2016 funded 0.25M DKK (with D.D. Lassen).

Dept. of Economics, KU: *The greater game of school choice* [PI] 2019 funded 0.1M DKK (with M.H. Gandil and H.H. Sievertsen).

Refereeing	Science Advances, European Journal of Operations Research and Scandinavian Journal of Economics.
Disseminate and media	Various interviews with Danish media Danmarks Radio, Weekendavisen, Information. My research has also been featured by Politiken, Zetland etc. Internationally it has featured on various research news media, e.g. statnews and blogs.
Open source contribution	Python: Scikit learn (machine learning); Geopandas (spatial procedures)
Various recent talks	Bio-statistics seminar, Uni. Copenhagen (2020); Education economics seminar, Uni. Aarhus (2019); Coalition Theory Network, Maastricht, Netherlands (2018); Conference on Network Economics (2017), Stanford, USA

List of Publications

[1] **Bjerre-Nielsen, A.**, Kassarnig, V., Lassen, D., and Lehmann, S. **2021b**. "Task-specific information outperforms surveillance-style big data in predictive analytics". In: *Proceedings of the National Academy of Sciences* 118.14.

[2] **Bjerre-Nielsen, A. 2020b**. "Assortative matching with network spillovers". In: *Journal of Economic Theory* 187, p. 105028.

[3] **Bjerre-Nielsen, A.**, Minor, K., Sapiezynski, P., Lehmann, S., and Lassen, D. D. **2020e**. "Inferring transportation mode from smartphone sensors: Evaluating the potential of Wi-Fi and Bluetooth". In: *PLOS ONE* 15.7, pp. 1–24.

[4] **Bjerre-Nielsen, A.**, Andersen, A., Minor, K. R., and Lassen, D. D. **2020f**. "The Negative Effect of Smartphone Use on Academic Performance May Be Overestimated: Evidence From a 2-Year Panel Study". In: *Psychological Science* 31 (11).

[5] Kassarnig, V., Mones, E., **Bjerre-Nielsen, A.**, Sapiezynski, P., Lassen, D. D., and Lehmann, S. **2018**. "Academic performance and behavioral patterns". In: *EPJ Data Science* 7.10 (1).

[6] Kassarnig, V., **Bjerre-Nielsen, A.**, Mones, E., Lehmann, S., and Lassen, D. D. **2017**. "Class attendance, peer similarity, and academic performance in a large field study". In: *PLOS ONE* 12.11, pp. 1–15.

Submitted working papers

[0] Minor, K., **Bjerre-Nielsen, A.**, Jónasdóttir, S., Lehmann, S., and Obradovich, N. **2020a**. "Ambient heat and Human Sleep".

[0] **Bjerre-Nielsen, A.** and Gandil, M. H. **2020c**. "Attendance Boundary Policies and the Limits to Combating School Segregation". Revision requested by American Economic Journal: Economic Policy.