

Andreas Bjerre-Nielsen

Univeristy of Copenhagen
Department of Economics &
Copenhagen Center for Social Data Science (SODAS)
Øster Farimagsgade 5, 1353 Copenhagen, DK

Digital contact
◦ web: bjerre-nielsen.me
◦ mail: abn@sodas.ku.dk
◦ tel: +45 353 24471

Employment

University of Copenhagen

Associate Professor at Dept. Economics and SODAS, 2022-current
Member Steering Group at SODAS, 2021-current
Assistant Professor at Dept. Economics and SODAS, 2018-2022
Head of Studies for MSc. Social Data Science, 2019-2021
Postdoctoral Researcher, 2016-2018
Parental leave: approx. 6 months 2016-2020.

Education

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

Stanford University: visiting Matt Jackson at Dept. of Economics, 2014.

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

Research focus

My research focuses on education policy evaluation, particularly school admissions and the use of digital technology.

Supervision

I have supervised 1 PhD student, 20+ MSc, 5+ BSc. Currently main supervisor for four PhD students (and 3 as co-supervisor).

Grants for research

Danish Council for Independent Research: *Implementation and perception in school choice* [PI] 2023-27: 5.8M DKK.

Villum Synergy: *Nation-Scale Social Networks* [co-PI] 2020-25: 20M DKK (with Sune Lehmann [PI]).

Danish Ministry of Children and Education: *EduQuant* [co-PI] 2021-24: 11.5M DKK (with M. Ejrnæs [PI], K. Karlsson [co-PI]).

Danish Ministry of Taxation: *Optimal Tax Control with Selection* [PI] 2021-24: 1.4M DKK (with C.K. Thustrup [co-PI]).

Danish Council for Independent Research: *Prediction based mechanism design and the problem of daycare assignment* [member] 2020-25: 2.8M DKK (with M. Gørtz, J. Kennes [PI] and E. Mattana).

Economic Policy Research Network: *Leveraging prediction tools and information disclosure policies to improve school choice* [PI] 2020-23: 0.3M DKK (with D.D. Lassen and E. Chrisander).

Econ Dept., KU: *Greater game of school choice* [PI] 2019-22: 0.1M DKK.

Awards	Tietgen prize , from Danish Society for Education and Business, 2021
Selected re- search talks	2023: Matching-in-Practice, IC2S2, Florida 2022: EEAMO, QUB, Bristol, SCIENCE AI Center, UCD, Aarhus, SOFI, 2021: Educ. Workshop Bergen; EEA; ISEE; EAERE; ES-China; EALE. (includes only most recent, incl. planned and by co-authors)
Teaching	University of Copenhagen Social Data Science: Econometrics and Machine Learning, 2018-current. Introduction to Social Data Science, 2017-current. Seminar, ‘Big Data, Econometrics and Machine Learning’, 2019. Seminar, ‘Economics of the Social Web’, 2013. University of Oslo Machine Learning in Economics (PhD topics course), 2021.
Refereeing	Science Advances, Games and Economic Behavior, Computers and Education, Scandinavian Journal of Economics, Big Data & Society, IC2S2, European Journal of Operations Research.
Disseminate and media	Various interviews and project coverage with international news media, e.g. CNN, The Guardian, NPR, Psychology Today and non-English media. Danish media by, e.g., DR P1, TV2 News, Weekendavisen, Politiken etc.

List of Publications

- [1] **Bjerre-Nielsen, A.** and Gandil, M. H. 2023. “Attendance Boundary Policies and the Limits to Combating School Segregation”. In: *American Economic Journal: Economic Policy* (forthcoming).
- [2] Minor, K., Glavind, K. L., Schwartz, A. J., Danforth, C. M., Lehmann, S., and **Bjerre-Nielsen, A.** 2023. “Nature exposure is associated with reduced smartphone use”. In: *Environment and Behavior* 55.3, pp. 103–139.
- [3] **Bjerre-Nielsen, A.** and Glavind, K. 2022. “Ethnographic data in the age of big data: How to compare and combine”. In: *Big Data & Society* 9 (1).
- [4] Minor, K., **Bjerre-Nielsen, A.**, Jónasdóttir, S., Lehmann, S., and Obradovich, N. 2022. “Rising temperatures erode human sleep globally”. In: *One Earth* 5 (5), pp. 534–549.
- [5] **Bjerre-Nielsen, A.**, Kassarnig, V., Lassen, D., and Lehmann, S. 2021. “Task-specific information outperforms surveillance-style big data in predictive analytics”. In: *Proceedings of the National Academy of Sciences* 118 (14).
- [6] **Bjerre-Nielsen, A.** 2020. “Assortative matching with network spillovers”. In: *Journal of Economic Theory* 187, p. 105028.
- [7] **Bjerre-Nielsen, A.**, Minor, K., Sapiezynski, P., Lehmann, S., and Lassen, D. D. 2020. “Inferring transportation mode from smartphone sensors: Evaluating the potential of Wi-Fi and Bluetooth”. In: *PLOS ONE* 15.7, pp. 1–24.
- [8] **Bjerre-Nielsen, A.**, Andersen, A., Minor, K. R., and Lassen, D. D. 2020. “The Negative Effect of Smartphone Use on Academic Performance May Be Overestimated: Evidence From a 2-Year Panel Study”. In: *Psychological Science* 31 (11).
- [9] 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).

- [10] 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.

Working papers

DRAFTED MANUSCRIPTS

- [11] **Bjerre-Nielsen, A.**, Christensen, L. S., Gandil, M. H., and Sievertsen, H. H. 2023. “Playing the System: Address Manipulation and School Access”.
- [12] **Bjerre-Nielsen, A.** and Chrisander, E. 2023. “Why Do Students Lie and Should We Worry? An Analysis of Non-truthful Reporting”. arXiv 2302.13718.
- [13] **Bjerre-Nielsen, A.** and Busch, M. B. 2022. “Statistical inference in social networks: how sampling bias and uncertainty shape decisions”.
- [14] **Bjerre-Nielsen, A.** and Chrisander, E. 2022. “Voluntary Information Disclosure in Centralized Matching: Efficiency Gains and Strategic Properties”. arXiv 2206.15096.