

Andreas Bjerre-Nielsen

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Research focus My research focuses on AI, social networks, and policy evaluation, particularly focused on educational public policy and the use of digital technology. I use and combine methods from economics and data science.

Employment **University of Copenhagen**
Associate Prof. in Economics and Social Data Science, 2022-current
Chair of Study Board for MSc Social Data Science, 2023-current
Member Steering Group at SODAS, 2021-current
Assistant Prof. in Economics and Social Data Science, 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
Stanford University: Visiting Student Researcher, 2014.
Barcelona School of Economics: M.A., Economics, 2012.

Grants for research **Danish Council for Independent Research - Sapere Aude:** *Coded Clues: Unraveling Learning at High Resolution* [PI] 2024-28: 6.2M DKK.
Danish Council for Independent Research - RP2: *Implementation and perception in school choice* [PI] 2023-28: 5.8M DKK.
Villum Synergy: *Nation-Scale Social Networks* [co-PI] 2020-25: 20M DKK (with Sune Lehmann [PI] and David D. Lassen).
Danish Ministry of Children and Education: *EduQuant* [co-PI] 2021-24: 11.5M DKK (with M. Ejrnæs [PI], K. Karlsson).
Danish Ministry of Taxation: *Optimal Tax Control with Selection* [PI] 2021-25: 1.4M DKK (with C.K. Thustrup, L. Wier).
Danish Council for Independent Research: *Prediction based mechanism design and the problem of daycare assignment* [member] 2020-24: 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
Supervision	I have supervised 3 PhD student, 40+ MSc, 10+ BSc. Currently I am the main supervisor for six PhD students.
Teaching	University of Copenhagen AI for Humanity, 2025-now. Data Governance: Law, Ethics and Politics, 2022-2024. Introduction to Social Data Science, 2017-2024. Social Data Science: Econometrics and Machine Learning, 2018-2020. Seminar, ‘Big Data, Econometrics and Machine Learning’, 2019. Seminar, ‘Economics of the Social Web’, 2013.
Refereeing (examples)	American Economic Review, Science Advances, One Earth, 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

Google Scholar metrics since 2020. Citations: 660. H-index: 9. i10-index: 9.

- [1] **Bjerre-Nielsen, A.** and Gandil, M. H. 2024. “Attendance boundary policies and the limits to combating school segregation”. In: *American Economic Journal: Economic Policy* 16.1, pp. 190–227.
- [2] **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)*.
- [3] 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.
- [4] **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).
- [5] 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.
- [6] **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).
- [7] **Bjerre-Nielsen, A.** 2020. “Assortative matching with network spillovers”. In: *Journal of Economic Theory* 187, p. 105028.
- [8] **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.

- [9] **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).
- [10] 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).
- [11] 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

- [12] Jakobsen, T. S. T., **Bjerre-Nielsen, A.**, and Böhm, R. 2024. “Reducing annotator bias by belief elicitation”. arXiv preprint arXiv:2410.15726.
- [13] Nielsen, M. L., Raaschou-Pedersen, J. S., Chrisander, E., Lassen, D. D., Grenet, J., Rogers, A., and **Bjerre-Nielsen, A.** 2024. “Trading off performance and human oversight in algorithmic policy: evidence from Danish college admissions”. In: arXiv preprint arXiv:2411.15348.
- [14] Cremers, J., Kohler, B., Maier, B. F., Eriksen, S. N., Einsiedler, J., Christensen, F. K., Lehmann, S., Lassen, D. D., Mortensen, L. H., and **Bjerre-Nielsen, A.** 2024. “Unveiling the social fabric: a temporal, nation-scale social network and its characteristics”. arXiv preprint arXiv:2409.11099.
- [15] **Bjerre-Nielsen, A.**, Christensen, L. S., Gandil, M. H., and Sievertsen, H. H. 2023. “Playing the System: Address Manipulation and School Access”.
- [16] **Bjerre-Nielsen, A.** and Chrisander, E. 2023. “Why Do Students Lie and Should We Worry? An Analysis of Non-truthful Reporting”. arXiv 2302.13718.
- [17] **Bjerre-Nielsen, A.** and Busch, M. B. 2022. “Statistical inference in social networks: how sampling bias and uncertainty shape decisions”.
- [18] **Bjerre-Nielsen, A.** and Chrisander, E. 2022. “Voluntary Information Disclosure in Centralized Matching: Efficiency Gains and Strategic Properties”. arXiv 2206.15096.