

ANDREAS BJERRE-NIELSEN

Associate Professor of Economics & Social Data Science

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POSITIONS

Associate Professor in Economics and Social Data Science, University of Copenhagen	2022–present
Research Advisor, Statistics Denmark	2026–present
Assistant Professor in Economics and Social Data Science, University of Copenhagen	2018–2022
Postdoctoral Researcher, University of Copenhagen	2016–2018
Parental leave, University of Copenhagen · 24 weeks total	2016–2020

EDUCATION

Ph.D., Economics, University of Copenhagen. Advisor: Peter Norman Sørensen	2016
Visiting Student Researcher, Stanford University	2014
M.A., Economics, Barcelona School of Economics	2012

PUBLICATIONS

- Blazkova, T., Kizilcec, R. F., Nielsen, M. L., Lassen, D. D., and **Bjerre-Nielsen, A.** (2025). Fairness Over Time: A Nationwide Study of Evolving Bias in Dropout Prediction. *Proceedings of the Twelfth ACM Conference on Learning@Scale (L@S '25)*.
- 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.** (2025). Unveiling the Social Fabric Through a Temporal, Nation-Scale Social Network and its Characteristics. *Scientific Reports*.
- Bjerre-Nielsen, A.** and Gandil, M. H. (2024). Attendance Boundary Policies and the Limits to Combating School Segregation. *AEJ: Economic Policy*.
- 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. *Environment and Behavior*.
- Bjerre-Nielsen, A.** and Glavind, K. L. (2022). Ethnographic data in the age of big data: How to compare and combine. *Big Data & Society*.
- Minor, K., **Bjerre-Nielsen, A.**, Jonasdottir, S. S., Lehmann, S., and Obradovich, N. (2022). Rising temperatures erode human sleep globally. *One Earth*.
- Bjerre-Nielsen, A.**, Kassarnig, V., Lassen, D. D., and Lehmann, S. (2021). Task-specific information outperforms surveillance-style big data in predictive analytics. *Proceedings of the National Academy of Sciences*.
- Bjerre-Nielsen, A.** (2020). Assortative matching with network spillovers. *Journal of Economic Theory*.
- 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. *Psychological Science*.
- Bjerre-Nielsen, A.**, Minor, K., Sapieżyński, P., Lehmann, S., and Lassen, D. D. (2020). Inferring transportation mode from smartphone sensors: Evaluating the potential of Wi-Fi and Bluetooth. *PLOS ONE*.
- Kassarnig, V., Mones, E., **Bjerre-Nielsen, A.**, Sapieżyński, P., Lassen, D. D., and Lehmann, S. (2018). Academic performance and behavioral patterns. *EPJ Data Science*.
- 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. *PLOS ONE*.

WORKING PAPERS

- Einsiedler, J., Harmon, N. A., Lassen, D. D., and **Bjerre-Nielsen, A.** (2026). Engineering Social Networks: How Initial Group Assignment Shapes Student Social Interactions.
- Vigild, D. J., **Bjerre-Nielsen, A.**, Mortensen, L. H., and Sekara, V. (2026). When Government Uses AI: Experimental Evidence of Selective Trust Decline and Algorithmic Nimbyism.
- Guyen, S. Y., Gårdhus, T., **Bjerre-Nielsen, A.**, and Carlsen, H. B. (2025). Comparing AI-led to Human-led Chat-based Interviews: Motivations, Initial Results, and Challenges.
- Mohr, L., Lehmann, S., and **Bjerre-Nielsen, A.** (2025). The Origins of Large-Scale Structure in Family Networks.
- Sungu, A., Choudhury, P. K., and **Bjerre-Nielsen, A.** (2025). Removing Phones from Classrooms Improves Academic Performance. (R&R, Science)
- Jakobsen, T. S. T., **Bjerre-Nielsen, A.**, and Böhm, R. (2024). Reducing annotator bias by belief elicitation. (R&R, Behavior Research Methods)
- 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.
- Bjerre-Nielsen, A.**, Christensen, L. S., Gandil, M. H., and Sievertsen, H. H. (2023). Playing the system: address manipulation and access to schools. (R&R, Journal of Public Economics)
- Bjerre-Nielsen, A.** and Busch, M. B. (2022). Statistical inference in social networks: how sampling bias and uncertainty shape decisions.

RESTING WORKING PAPERS

- Bjerre-Nielsen, A.** and Chrisander, E. (2023). Why Do Students Lie and Should We Worry? An Analysis of Non-truthful Reporting.
- Bjerre-Nielsen, A.** and Chrisander, E. (2022). Voluntary Information Disclosure in Centralized Matching: Efficiency Gains and Strategic Properties.
- Bjerre-Nielsen, A.** and Gandil, M. H. (2018). The price of free schools.

AWARDS

Tietgen Prize 2021
Co-recipient · Danish Society for Education and Business (DSEB) · 250,000 DKK (share of 500,000 DKK)

GRANTS

CAISA × Statistics Denmark collaboration PI · Danish Research Reserve (Forskningsreserven)	2026–2028
Coded Clues: Unraveling Learning at High Resolution PI · Danish Council for Independent Research (Sapere Aude)	2024–2028
Implementation and perception in school choice PI · Danish Council for Independent Research (RP2)	2023–2028
EduQuant co-PI · Danish Ministry of Children and Education	2021–2025
Optimal Tax Control with Selection PI · Danish Ministry of Taxation	2021–2025
Nation-Scale Social Networks co-PI · Villum Synergy	2020–2025
Prediction based mechanism design and the problem of daycare assignment co-PI · Danish Council for Independent Research	2020–2024
Leveraging prediction tools and information disclosure policies to improve school choice PI · Economic Policy Research Network	2020–2023

Greater game of school choice
PI · Department of Economics, University of Copenhagen

2019–2022

SELECTED MEDIA COVERAGE

Coverage includes The Guardian, CNN, The Economist, The Washington Post and NPR internationally, and Politiken, Berlingske and Weekendavisen in Denmark.

TEACHING

AI for Humanity: Machine Decisions, Learning and Societal Consequences	2025
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

SERVICE

Chair, Board of Studies for MSc Social Data Science, University of Copenhagen	2023–2026
Member, Steering Group at SODAS, University of Copenhagen	2021–2024
Head of Studies for MSc Social Data Science, University of Copenhagen	2019–2021

Referee: Nature, American Economic Review, Science Advances, One Earth, AER: Insights, Games and Economic Behavior, Computers and Education, Scandinavian Journal of Economics, Big Data & Society, IC2S2, European Journal of Operations Research.

PHD SUPERVISION

Kristoffer Lind Glavind	2021
Emil Chrisander	2023
Jeppe Søndergaard Johansen	2024
Johanna Einsiedler	2025
Tobias Gabel Christiansen	2025
Magnus Lindgaard Nielsen	2026
Jonas Skjold Raaschou-Pedersen	2027 (expected)
Christian Fogel Henneberg	2028 (expected)
Tereza Blazkova	2027 (expected)
Daniel Juhasz Vigild	2027 (expected)

MASTER'S AND BACHELOR'S SUPERVISION

MSc thesis supervision	40+
BSc thesis supervision	10+