

# ALEXANDER CAPPELEN

Sociology | Social Data Science | [cand.scient.soc](https://cand.scient.soc)

## EXPERIENCE

Head of Section, Population & Education

**Statistics Denmark**

📅 July 2024 -

📍 Copenhagen

- Contributing to development of Teacher-Student Register (press here for more info)
- Yearly production of educational statistics, including Highest Education Attained and Immigrants' Educational Background
- Analysis of high-frequency data from child care attendance registration

Teaching Assistant

**Department of Social Data Science, University of Copenhagen**

📅 January 2023 - December 2023

📍 Copenhagen

- Teaching methods of social data science, digital methods, and providing guidance in student projects
- Teaching machine learning, network analysis, and causal inference, including application with Python

Student Assistant

**Department of Sociology, University of Copenhagen**

📅 April 2022 - September 2022

📍 Copenhagen

- Contributed in developing survey and gathering contact information for survey participants
- Collected data on book loans from public libraries in Denmark through an API using Python

Student Assistant

**Department of Economics, Copenhagen Business School**

📅 November 2020 - October 2021

- Reviewing data and code for errors
- Aiding in literature review for researchers

## RELEVANT COURSES

Thesis: Parlarchy in the UK

**Department of Sociology**

📅 Fall 2023

- GIS, mapping data, and spatial panel regression
- Analysis of behavioral data from social media
- Conceptualising far right social movements on alternative social media

S&DS 565: Introductory Machine Learning

**Department of Statistics and Data Science, Yale University**

📅 Fall 2022

## CONTACT

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🔗 [alexpcapp](#)

🎂 24.11.1995

## IT

R  
Python  
LaTeX  
STATA  
HTML & CSS  
SQL  
SAS



## LANGUAGES

Danish  
English



## EDUCATION

M.Sc. in Sociology

**University of Copenhagen**

📅 Sept 2021 - January 2024

Exchange student

**Yale University**

📅 Sept 2022 - December 2022

B.Sc. in Sociology

**University of Copenhagen**

📅 Sept 2018 - June 2021

B.Sc. in Technoanthropology (not finished)

**University of Aalborg**

📅 Sept 2017 - June 2018 (dropped out)

- Supervised learning, unsupervised learning, linear regression, classification, stochastic gradient descent, cross validation, tree-based methods, topic models, language models, word embeddings, Bayesian inference, neural networks
  - `pandas`, `numpy`, `matplotlib`, `tensorflow`, `scikit-learn`, `seaborn`, Jupyter Notebook
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## S&DS: Data Science for Political Campaigns

**Department of Statistics and Data Science, Yale University**

📅 Fall 2022

- Modelling of voter behavior, evaluating campaigns, voter experiments
  - `pandas`, `numpy`, `matplotlib`, Jupyter Notebook
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## Independent study

**Department of Sociology, Yale University**

📅 Fall 2022

- Writing (short) paper intended for publication in collaboration with an adviser
  - Analysing and mapping data from social media using R
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## Econometrics I

**Department of Economics, University of Copenhagen**

📅 Fall 2020

- Causal inference, regression analysis, natural experiments, time series, DiD
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## The Logic of Design-Based Research

**Department of Sociology, University of Copenhagen**

📅 Fall 2021

- Causal inference, IV, DiD, regression discontinuity, experiments & natural experiments
  - Counterfactual model of causality
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## Advanced Knowledge, Organization, Politics

**Department of Sociology, University of Copenhagen**

📅 Fall 2021

- Applying social network analysis of Danish politics on Twitter for final paper

# AWARDS

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## Award for Best Bachelor's Thesis 2022 from the Society for Survey Research

📅 Spring 2022

- [Press here for more info about the award and the Society for Survey Research](#)