Frederik Lange

Political scientist turned data scientist. Big passion for learning about the data science space and exploring new developments. 3 years of full-time experience from the Danish Ministry of Finance and the OECD.

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Experiences

External Consultant, **OECD**, December 2023 - March 2024
- Hired to do a case study on the use of spending reviews and efficiency analyses in Denmark (expected publication in 2024)

Head of Section, **Ministry of Finance**, February 2021 - October 2023
- Prepared more than 30 decision making papers for the Minister of Finance and the Danish government
- Covered and prepared documents for the political negotioations on the Danish Media Agreement for 2022-2025 and 2023-2026
- Engaging in a wide range of contacts with both external and internal stakeholders to build constructive collaborative relationships through strong communication skills

Education

MSc in Data Science, **University of Southern Denmark**, 2024 - 2026
- Enrolled with start in september 2024

MSc in Political science, **University of Copenhagen**, 2019 - 2021
- Focus on political behavior and advanzed quantitative methods
- Thesis on political polarization in speeches using 0.5 million parliamentary speeches to create a machine learning based measure of polarization, trained model using Google Cloud Platform
- Applied advanced statistical methods and research designs to study political behavior (e.g. Regression Discontinuity Designs)
- Took data science courses and gained experience with Python, R, machine learning, and NLP
- **GPA:** 10.8/12.0

MSc in Political Science (exchange), **Sciences Po Paris**, Spring 2020
- Took courses within the areas of public policy and microeconomics, including a special focus on labor market economics
- **GPA:** 16.1/20.0 (equivalent to 12.0)

BSc in Political science, **University of Copenhagen**, 2016 - 2019
- Thesis on the impact of motivated reasoning on the ability to assess performance information using a survey experiment
- Acquired a range of analytical and communicative skills to analyze complex issues with statistical methods
- **GPA:** 10.5/12.0

Skills

Programming Languages
Python, R, CSS, Go (learning), JavaScript (learning)

Libraries and tools
Pandas, Numpy, scikit-learn, xgboost, tidyverse, git, GitHub, VScode

Projects

Machine Learning and Conflict Prediction
Explored how machine learning (xgboost and more) can help forecast and predict future conflicts

Polarization in Parliamentary Speeches
Measured polarization in 0.5 million parliamentary speeches with a machine learning based measure

Certificates

Google Advanced Data Analytics Professional Certificate (expected completion: summer 2024), enrolled at boot.dev

Languages

Danish (mother tongue), English (fluent), French (A2-B1)

Interests

Climbing, running, reading, cooking