

Björn Pettersson

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EDUCATION

Copenhagen University

Copenhagen, Denmark

Bachelor of Science, Computer Science and Economics

2023 – 2026

- Focus on modeling, econometrics, and game theory. Most advanced coursework:
- Econometrics II with emphasis on panel data methods, OpenMP parallel optimization in C, course work for HPPS

Seoul National University

Seoul, Korea

Exchange Semester, master's level electives

2025

- Deep Learning, Advanced Deep Learning, Mechanism Design, Operations Management.
- Leading student project on language modeling, working with nanoGPT repo, openWebText, MMLU

Kongelige Akademi + Copenhagen Business School

Copenhagen, Denmark

Master of Arts, Strategic Design and Entrepreneurship

2022 – 2023

- Master's thesis in collaboration with CARE – developed a generative design tool in Python.
- Strategic urban development project in collaboration with Høje Taastrup Municipality.

PROFESSIONAL EXPERIENCE

Enyday

Hellerup, Denmark

BA Thesis – Energy Arbitrage and Ancillary Services

Feb 2026 – Jul 2026

- Modelling revenue potential for aggregated BTM energy community battery assets with variable consumption and PV production, operated as a Balancing Service Provider (BSP) in the DK2 price zone.
- Working with real 2025 operational data from energy communities managed by Enyday, including live tariff structures and spot price series. As well as frequency data for aFFR activation payments modelling
- Applying MILP optimisation to establish upper-bound earnings from FCR-D, aFRR, and spot arbitrage service stacking.

Enyday

Lyngby, Denmark

Market Research – Working Student

Oct 2021 – Sept 2023

- Conducted legal and market research for Swedish market entry, analysing regulatory frameworks and competitive landscape.
- Analysed EU REDII implications for solar adoption across member states; produced market entry strategies.
- Researched collaboration opportunities with Pension Denmark around building certifications and ESG/taxonomy frameworks.
- Contributed to venture capital pitch preparation with energy market and regulatory insights.

Bollinger Grohmann

Berlin, Germany (Remote)

Freelance Research Assistant

Oct 2021 – Apr 2022

- Developed and published AI tools for architects and engineers on Food4Rhino (Rhino 3D ecosystem).
- Co-authored a paper on a DQN reinforcement learning agent; presented at Design Modelling Symposium Berlin.

SKILLS & TOOLS

- **About:** Swedish, but lived in DK since 2018, written danish as well as spoken with an accent
- **Programming Languages:** Python (primary); C and F# (academic).
- **Libraries:** pandas, numpy, PyTorch, Keras, statsmodels, nashpy, scipy.
- **Tools & Data:** Git, SQL, PostgreSQL, basic Vercel deployments for web

ADDITIONAL INFORMATION

- Summer school teacher in mathematics and Swedish; assisted in the integration of new citizens.
- Developed landscape design elements for the Place Schuman project in Brussels (now under construction) at COBE.