Gustav Dyhr

GustavDyhr.com • gd.fi@cbs.dk

Research Experience

Copenhagen Business School | September 2026 – Now
PhD Student in Finance – Center for Big Data in Finance (BIGFI)

- Doing research focused on derivative markets

Education

Copenhagen Business School | August 2024 – June 2026
MSc in **BA and Mathematical Business Economics – Cand.Merc.Mat.**

- Grade Average: 11.8
- Electives focused on Mathematical finance.
- Master Thesis: Moving the Cube: Market Structure and Price Impact in the Swaption Market. (Grade 12)

Copenhagen Business School | August 2021 – June 2024
BSc in **BA and Mathematical Business Economics – Ha (Mat.)**

- Grade Average: 10.5 (Rank 7 out of a 105-person starting class)
- Electives: Corporate Finance, Forecasting in Business and Economics.
- Bachelor Thesis: Modern Portfolio Optimisation with Non-Gaussian Assets and Views. (Grade 12)

Industry Experience

Selandia Alpha Invest | March 2025 – August 2026
Student Assistant

- Developed and implemented trading signals and algorithms in C# and Python.
- Analysed large financial datasets to evaluate and back-test investment and trading strategies.
- Trading in exchange traded products, gaining hands-on experience on real-world market dynamics.

Danske Bank Markets | January 2023 – February 2025
Student Analyst - Business

- Developed a large-scale, automated data system using SQL, Python, R, and Tableau for consolidating multi-source datasets, improving data usability and reaching hundreds of markets employees daily.
- Conducted advanced data analysis and built extensive reports for Fixed Income Sales and Trading, improving decision-making processes for portfolio management and risk handling.
- Drove business initiatives in AI-related tasks, including GLM, LLM, and NLP, freeing up DCM manpower and facilitating deal-making.

- Gained intimate knowledge of financial products, markets and participants.

Enalyzer | March 2022 – December 2022
Trainee Consultant
- Created a magnitude of Excel VBA tools for automating our reporting flow and expanding our offerings.
- Played with some simple statistics such as weighted gaussian confidence intervals, boosting customer insight.

Virum Gymnasium | April 2021 – June 2021
COVID-19 Test Supervisor

Copenhagen Medical | April 2021 – June 2021
COVID-19 Tester

The Danish Royal Life Guards | August 2020 – March 2021
Royal Guard
- Completed 8-month military conscription, demonstrating physical and mental endurance in high-stress environments.

Irma Holte | June 2018 – June 2019
Service employee

Academic Interests

Derivative Markets, Intermediary Asset Pricing, Market Microstructure, Portfolio Theory, Risk Management, Statistics, Option Pricing, Fixed Income, Machine Learning.

Personal Projects

- **Algorithmic Prediction Trading:** Built a fully automized trading system for prediction markets, with a strategy focused on adding liquidity and another focused on estimating fair prices with stochastic volatility models. Both models were built by collecting data from different sources and then testing statistical and financial models.
- **Algorithmic Perpetual Trading:** Created a similar trading system for trading perpetual equity futures based on funding rates, to achieve (slightly leveraged) positive beta exposure with negative funding rates.