

Magnus Hansson, Ph.D.

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Employment History

- 2025 –
 - ▶ **Lead Data Scientist**, Trudy AI.
 - Authored a whitepaper establishing a theoretical framework for an ML system; built the system and deployed to production, yielding >30% performance uplift.
- 2023 – 2025
 - ▶ **Assistant Professor**, Stockholm University; affiliate Swedish House of Finance.
 - Researched blockchain and quantum computing applications in finance.
 - Developed and maintained a Python package to parse Ethereum data.
 - Taught DeFi and blockchain technology.
 - ▶ **Data Scientist**, Independent Consultant.
 - Built and deployed RAG/LLM pipelines and ML models for early-stage startups.
 - Authored a whitepaper on smart contract liquidity risk; built a Kelly criterion-based framework and deployed it to production.
- 2017 – 2018
 - ▶ **Machine Learning Engineer**, Combine Control Systems.
 - Researched and implemented neural networks for a hardware-in-the-loop engine simulator.
- 2016
 - ▶ **Research Assistant**, Jönköping International Business School.
 - Built a GARCH-copula risk model for an academic research project.
- 2012 – 2014
 - ▶ **Summer Analyst**, Nordea Bank.
 - Supported corporate banking operations.

Education

- 2018 – 2023
 - ▶ **Ph.D. Economics, University of Gothenburg.**
 - Thesis: *Decentralized Finance and Central Bank Communication.*
 - Visiting researcher at Stockholm School of Economics.
- 2016 – 2017
 - ▶ **M.Sc. Economics, Lund University.**
 - Thesis: *On Stock Return Prediction with LSTM Networks.*
- 2014 – 2017
 - ▶ **B.Sc. Mathematics, Lund University.**
 - Thesis: *Feedforward Neural Networks with ReLU Activation Functions are Linear Splines.*
- 2011 – 2014
 - ▶ **B.Sc. Economics, Jönköping International Business School.**
 - Thesis: *Does Increased Agglomeration Lead to Higher Matching on the Labor Market?*
 - Exchange semester at the University of St.Gallen.

Skills

- Methods
 - ▶ Machine Learning, Deep Learning, NLP/LLM/RAG, Statistics/Econometrics, Time Series.
- Coding
 - ▶ Python, R, Julia, SQL, Bash, MATLAB, Stata.
- Dev Tools
 - ▶ Git, GCP, Vertex AI, Docker, CI/CD, MLOps, Vim, Linux.