

Dr. Jesper Armouti-Hansen

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SUMMARY

Quantitative analyst with a background in economics and applied data science. Experience working with statistical models and machine learning in practical settings, with a focus on understanding model performance and supporting decisions based on data. Interested in moving towards quantitative modelling in a market and risk context.

WORK EXPERIENCE

AXA Konzern AG

Data Scientist

Apr. 2026 - present

Cologne, Germany

- Analyzed model outputs and confidence levels to support decisions on when results can be used directly and when human review is required.
- Collaborated with stakeholders to translate analytical findings into actionable improvements.

University of Bonn

Postdoctoral Researcher (Economics)

Jan. 2022 – Mar. 2026

Bonn, Germany

- Applied econometric and statistical methods to analyze behavioral and economic data.
- Built and assessed empirical models using structured datasets.
- Interpreted results and communicated findings in a clear and transparent way.

University of Cologne

Research Assistant (Economics)

Dec. 2015 – Dec. 2021

Cologne, Germany

- Conducted empirical research using econometric methods.
- Conducted theoretical research using mathematical and statistical methods.
- Supported teaching in applied microeconomics and data analysis.

AirPlus International

Intern

Dec. 2014 – May 2015

Neu Isenburg, Germany

- Developed VBA-based tools for efficient data management and process automation.
- Assisted in data analysis and system maintenance activities.

Freelance

Web and Graphics Designer

Apr. 2012 – Jul. 2014

Remote

- Developed and maintained websites and supported online marketing analysis.

Danske Bank

Intern

Aug. 2010 – Jan. 2011

Copenhagen, Denmark

- Supported advisory on financial products and client decisions.

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EDUCATION

University of Cologne

PhD in Economics (Dr. rer. pol.)

- summa cum laude.
- Focus on microeconomics, statistics, econometrics.

Nov. 2015 – Dec. 2021

Cologne, Germany

University of Mainz

MSc International Economics and Public Policy

- GPA: 1.6
- Focus on microeconomics, statistics, econometrics.

Oct. 2012 – Aug. 2014

Mainz, Germany

Copenhagen Business Academy

B.A. in Financial Management and Services

Aug. 2008 – Feb. 2012

Copenhagen, Denmark

European University of Cyprus

Exchange Semester

Jan. 2010 – Jun. 2010

Nicosia, Cyprus

SKILLS

Quantitative

Statistical modelling · Econometrics · Model evaluation · Hypothesis testing · Error analysis

Programming

Python (pandas, numpy, scikit-learn, statsmodels) · SQL · R · Stata

Tools

Excel · Git · Jupyter · Linux

LANGUAGES

English Full professional proficiency (C2)

German Professional proficiency (C1/C2)

Danish Native proficiency

SELECTED PROJECTS

Machine Learning Analysis of Economic Data

- Built and evaluated predictive models on structured datasets.
- Compared model performance and assessed predictive accuracy across methods.

Experimental Data Analysis

- Analyzed experimental data using regression and hypothesis testing.
- Performed data cleaning and basic visualization.