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Summary.

Applied science leader with experience building and scaling teams to develop Al-driven automation tools. Led global teams of scientists and engineers delivering AI solutions for software development, cloud infrastructure, and enterprise automation. Skilled in the development of AI products, large-scale deployment, and bridging research with practical applications. Focused on Al-driven efficiency gains and real-world impact in software engineering and operations.

Work Experience _____

AWS AI Seattle, USA - Berlin, Germany

PRINCIPAL APPLIED SCIENTIST AND SENIOR MANAGER

Mar. 2020 - current

- Code agents science head for Amazon Q.
- Science lead for Amazon Software Builder Experience.
- Created and managed a team of 30+ scientists and engineers distributed on 4 continents.
- Key accomplishments:
 - 2024: Led the development of the Amazon Q Developer agent. Topped SWE-bench leaderboard 3 times (leaderboard link, blog 1, blog 2).
 - 2024: Developed AI agents to automate Java application migration at Amazon. Saved 4500 years of developer effort and \$260M/year. (link)
 - 2023: Built Amazon's internal deployment safety system, monitoring 3 million deployments monthly.
 - 2023: Developed the Sagemaker Foundation Model Hub, making 10+ FM models 1-click available with parameter-efficient fine-tuning.
 - 2021: Launched the Anomaly detection service Amazon Lookout for Metrics.

Amazon - Intelligent Cloud Control

Berlin, Germany

SENIOR APPLIED SCIENTIST Jan. 2019 - Feb. 2020

- · Science lead for the organization in charge of the health of Amazon's retail website.
- · Key accomplishments:
 - 2020: Developed a new alarming system for Amazon's key metric, the order rate, detecting rare (10^{-6}) events with precision.
 - 2019: Developed a service resilience policy indicator and incentive scheme for all service owners at Amazon reviewed weekly at SVP-level.

Amazon - Supply Chain Optimization Technology

Berlin, Germany

Jun. 2016 - Jan. 2019 **ECONOMIST**

- Key accomplishments:
 - 2018: Developed and deployed the first neural structural model for long-range forecasting.
- 2017: Built uncertainty quantification on the legacy forecasting system for retail ordering.

Danske Commodities Aarhus, Denmark

• Built ML forecasting models and trading strategies for the Nordic electricity spot market.

Free University Amsterdam

Amsterdam, the Netherlands

POSTDOCTORAL RESEARCHER - ECONOMETRICS AND MACHINE LEARNING FOR TIME-SERIES ANALYSIS.

2012 - 2015

2013 - 2014

• Research Fellow, the Tinbergen Institute. Junior Research Fellow, CREATES.

Skills

Management 5+ years of management of over 30 scientists and engineers. Over 150 interviews and 30 hires. Underperformance management

Research 20+ publications on generative Al, deep-learning, time-series, causality, statistics, econometrics with >1.5k citations.

Patents 4 patents granted, 12 filed with USPO.

Languages English (fluent), French (fluent), Danish (proficient)

Education

Ph.D. in Econometrics 2007 - 2012

CREATES - AARHUS UNIVERSITY

Aarhus, Denmark

- · Visiting Scholar, Princeton University 2011.
- · Dissertation focused on Time-series modeling, high-dimensional statistics, Machine Learning, and applications in macroeconomics.

B.Sc. in Mathematics and Computer Science

2007

PARIS SORBONNE UNIVERSITY - UNIVERSITÉ PIERRE ET MARIE CURIE

Paris, France

B.Sc. in Economics 2007

PARIS NANTERRE UNIVERSITY

LAURENT CALLOT · RÉSUMÉ MARCH 6, 2025