

Dr. Philipp Alexander Thompson

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Summary:

Data scientist and certified deep learning developer (TensorFlow) with extensive experience in academic research, seeking an industry role to deploy a broad analytical skill set combined with business expertise. I'm dedicated to using machine learning and deep learning algorithms to provide actionable insights with precision and detail. Eager to bring an impactful change in an innovative environment.

Work experience

- **Post Doctoral Researcher**, School of Business and Economics, Freie Universität Berlin, June 2022 - Present
 - Leading data scientist for "laws of social cohesion"; directed data collection, preprocessing, and analysis.
 - Extracted insights using ML and DL techniques in Python and R; supervised and unsupervised learning, text classification, topic modeling, cluster analysis.
 - Developed a DL model using RNNs and CNNs predicting companies' risk of media scandals based on ESG-reporting.
 - Tools: R, Python, Quanteda, Tidyverse, Topicmodels, Pandas, Numpy, Keras, TensorFlow.
- **Graduate Research Assistant**, School of Business and Economics, Freie Universität Berlin, April 2017 - May 2022
 - Conducted econometric studies on drivers and outcomes of companies' investment and HR strategies.
 - Applied statistical analyses like linear regression, logistic regression, DID, GMM.
 - Tools: R, Stata.
- **Research Assistant**, School of Business and Economics, Freie Universität Berlin, Oct 2015 - Sept 2016
 - Gathered financial data, performed exploratory data analysis, data visualizations.
 - Tools: Stata.
- **Management Intern**, Maersk Line, Sept 2013 - Oct 2013
 - Shadowed operations managers, developed process efficiency improvement suggestions.

Projects

For more details, see [GitHub](#) page.

- **Predicting Companies' Scandal Risk**: Developed a DL model forecasting companies' scandal risks based on their ESG-reporting using TensorFlow. Achieved 81% accuracy.
- **Financialization in Different Varieties of Capitalism**: Applied econometric models like fixed effects linear regression and GMM regression to determine drivers of nonfinancial firms' investment in financial assets.
- **Cross-National Comparison of the Employment Outcomes of Financialization**: Utilized multilevel mixed effects regression models to study employment effects of nonfinancial firms' investment decisions.

Education

- **Doctorate in Economics**, Freie Universität Berlin, Germany
2017 - 2022, Grade: Summa cum laude
 - Courses: Text Mining, Methodology of Quantitative Empirical Research, Quantitative Methods, Social Network Analysis.
 - Thesis: The Financialization of Nonfinancial Corporations – Drivers and Outcomes in Context.
- **M.Sc. in Management & Marketing**, Freie Universität Berlin, Germany & Nanjing University, China
2014 - 2016, Grade: Very good (1.4)
 - Courses: Quantitative Methods, Cluster Analysis, Factor Analysis, Principal Component Analysis.
 - Thesis: Influence of CSR on Corporate Reputation and the Moderating Role of Institutional Environments.
- **B.Sc. in Business Administration**, Freie Universität Berlin, Germany & Kyoto University, Japan
2010 - 2014, Grade: Excellent (1.5)

Skills

- **Programming:** Python, R, Stata
- **Data Analysis:** Pandas, Numpy, Scikit-learn, Keras, TensorFlow, Tidyverse, Quanteda
- **Visualization:** Matplotlib, Seaborn, Tableau, ggplot2
- **Databases:** SQL
- **Soft Skills:** Critical thinking, Scientific rigor, Team collaboration, Excellent communication, Time management

Languages

- English (Fluent)
- German (Fluent)
- Spanish (Fluent)

Certifications

- TensorFlow Developer Certification, TensorFlow
- Machine Learning Professional Certificate, IBM
- Data Science - Text Analysis (Text Mining) Using R, London School of Economics (LSE)
- Data Analytics Professional Certificate, Google

Publications

Kirsch, A., Sondergeld, V., **Thompson, P. A.**, & Wrohlich, K. (2023). *Corporate reporting provides insight into companies' commitment to gender equality*. DIW Weekly Report, 13(3/4), 32-39.

Thompson, Philipp Alexander (2019): *Financialization and Institutional Environments: Firm-Level Outcomes from a Comparative Perspective*. INCAS Discussion Paper Series 2019#5.

Honors & Awards

- Received **grant funding** through the Exzellenzstrategie of the German Federal Ministry of Education and Research, and the State of Berlin from 2022 until 2023, and through an EU Marie Skłodowska-Curie project grant, from 2018 until 2019.
- Received **scholarships**: DAAD-PROMOS, 2015-2016, and JASSO, Japan Student Services Association, 2012-2013.