

# Casper Nordal Joergensen, PhD

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## Technical Economist & Data Scientist

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I am an empirically driven, results-oriented Economist and data scientist with 9 years of experience in economic and statistical modeling of consumer behavior, with applications in macroeconomics, finance and marketing. I leverage modern programming languages and ML/statistical toolkits for my work and am constantly expanding my skill set. I am passionate about applied research informing new product and service development.

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## Work Experience

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**University of California, Berkeley, Berkeley, CA** **2018–Present**

**Research Fellow and Lecturer at Berkeley's Institute for Data Science**

- Areas of research: Applied Econometrics, Household Finance and Macroeconomics.
- Teaching: *Statistics for Data Science*, W203.

**CyberCube Analytics, San Francisco, CA** **2018–Present**

**Principal Economist/Data Scientist**

- Use statistical methods to model the likelihood and economic impact of extreme events.
- Estimate and develop statistical models to determine companies' risk profile.
- Process and analyze big data (+1TB) by writing efficient multi-threaded algorithms in Python.
- Improved the company matching algorithm, by developing a better natural language processing algorithm, which significantly reduced the rate of false positive matches in our product.

**Symantec, Cyber Insurance Group, San Francisco, CA** **2016–2017**

**Principal Economist/Data Scientist**

- Used statistical methods to model the likelihood and economic impact of cyber risks.
- Built a model predicting the behavior of cyber adversaries using security intelligence data.
- Reduced runtime from tens of hours to minutes by writing automation scripts in Python.

**Danish Central Bank, Copenhagen, Denmark** **2013–2016**

**PhD Scholar**

- Used logistic regression analysis and dynamic programming to prove that, under certain conditions, it may be optimal to not fully pay off one's credit card spending every month. This can account for the behavior of approximately 13% of US households.
- Built a novel algorithm predicting how to maximize the economic effects of government stimulus packages using non-parametric regression analysis on administrative data (+45M observations).

**Danish Trade Union, Copenhagen, Denmark** **2008–2011**

**Student Analyst**

- Identified key policies that could help improve conditions for marginalized voters using logistic regression analysis on worker survey data.
- Drastically improved visibility of the political landscape by building a model to predict Danish election results down to parliamentary seats. The model is now used at the polling agency Norstat.
- Identified key voter patterns using hierarchical cluster analysis on voter survey data.

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## Education

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- PhD, Economics, University of Copenhagen** **2017**  
◦ Expertise: Macroeconomics, Applied Econometrics and Household Finance.
- Visiting PhD Student, University of California, Berkeley** **2014–2015**  
◦ Selected through competitive selection process among all Univ. of Copenhagen graduate students.
- MSc, Economics, University of Copenhagen** **2013**  
◦ Graduated top 2% in class.
- Visiting Student, University of California, Berkeley** **2011–2012**  
◦ GPA: 3.8/4.
- BSc, Economics, University of Copenhagen** **2010**
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## Skills

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- English (fluent) ◊ Danish (native) ◊ Spanish (basic) ◊ German (basic).  
Python ◊ Matlab ◊ Stata ◊ L<sup>A</sup>T<sub>E</sub>X ◊ SAS ◊ SQL ◊ VBA ◊ Microsoft Office.  
Data Science ◊ Statistical Learning ◊ Dynamic Programming ◊ Panel Data Modeling  
◊ Time Series Modeling ◊ Discrete Choice Modeling ◊ Structural Regression Modeling ◊  
Non-Parametric Regression Modeling ◊ Cluster Analysis ◊ Web Crawling.
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## Achievements

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### Academic Research Papers

- **Precautionary Borrowing and the Credit Card Debt Puzzle**, with Jeppe Druedahl, published in the journal *Quantitative Economics*.
- **Non-Parametric Estimation of Marginal Propensities to Consume: New Evidence from Regression Splines**, w. Andreas Kuchler, *Danmarks Nationalbank Working Paper No. 112*.
- **Shopping Responses to Business Cycle Fluctuations**, with Leslie Sheng Shen, *Draft available upon request*.

### Selected Presentations

- Finance Seminar, University of California, Berkeley, November, 2016.
- Economic Policy and Research Unit, Danish Central Bank, September, 2015.
- Ninth Nordic Summer Symposium in Macroeconomics, Smögen, Sweden, August, 2015.
- Center for Applied Micro-Econometrics, University of Copenhagen, June, 2014.

### Selected Academic Recognitions

- Awarded full PhD scholarship by the Danish Central Bank, 2013.
- Nominated for Zeuthen Prize for Best Master's Thesis, 2013.

### Selected Extracurricular Activities

- Math tutor to inmates in San Quentin State Prison, California, 2011.
- Mentor for (Economics) freshman students at University of Copenhagen, Denmark, 2010–2011.
- President of the Copenhagen Branch of the largest youth political party, Denmark, 2009–2010.
- Volunteer, Nicaragua, 2006.