MAXIMLIAN J. VOGLER

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- Highly skilled in deep learning, predictive ML, causal inference and their intersection
- 6+ years of coding experience (e.g. Python, Java) in both data analysis and computational modeling
- 7+ years experience in economic modeling/analysis
- CS coursework (e.g. data structures, algorithms)
- Talented communicator awarded the Graduate Student Teaching Prize

EDUCATION

Princeton University *Expected 2021*
PhD in Economics
Dissertation Topics: Deep Learning, Machine Learning, Applied and Computational Macroeconomics

Princeton University *2017*
MA in Economics

University of St. Gallen, Switzerland *2015*
BA in Economics | BA in Business Administration

RESEARCH PROJECTS

A Deep Learning Algorithm For High-Dimensional Dynamic Programming Problems
- Develops a new Deep Learning approach for economic models to solve differential equations with up to 75 continuous state variables.

Topic Modeling for the Economic Reports of the President
- Utilizes ML approaches to Natural Language Processing to analyze the content of the Economic Reports of the President in order to identify the causal relationship between taxes and growth.

Government Policies in a Granular Open Economy
- Estimates and investigates the economic costs and benefits of antitrust, trade and industrial policies in a trade model focused on firm size.

Finding the Sources of Wealth Inequality
- Builds a structural economic model to analyze the underlying sources of increasing wealth inequality.

RESEARCH AND LEADERSHIP EXPERIENCE

Princeton University
Graduate Teaching Assistant *2017 - Present*
- Teach 80 undergraduate students each year in Microeconomics, Macroeconomics and Econometrics.

Research Assistant *2016 - 2019*
With Professors Oleg Itskhoki, Ben Moll and Esteban Rossi-Hansberg
- Coded and estimated trade and macroeconomic models with 5,000+ lines of code.
- Cleaned, merged and pre-processed large tax data sets and estimated changes in income inequality.

HONORS AND AWARDS

Princeton University Graduate Fellowship *2015 - Present*

Princeton University Graduate School Teaching Prize - *top 0.2% of graduate teachers* *2020*

German National Merit Foundation - *top 0.5% of German students* *2011 - 2017*

SKILLS AND INTERESTS

Programming Languages: Python (TensorFlow, Scikit-Learn, Pandas), Java, C, Matlab, SQL, Stata

Statistics and Machine Learning: Causal Inference (Experiments, DiD, IV, RDD), Deep Learning, Predictive Modeling (Random Forests, Boosted Trees, SVM), ML for Causal Inference (Causal Trees)

Interests: Squash, Traveling, Windsurfing, Hiking, Taking CS Courses, Reading, Duolingo