

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 PhD in Economics <i>Dissertation Topics:</i> Deep Learning, Machine Learning, Applied and Computational Macroeconomics	<i>Expected 2021</i>
Princeton University MA in Economics	<i>2017</i>
University of St. Gallen, Switzerland BA in Economics BA in Business Administration	<i>2015</i>

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 <ul style="list-style-type: none">• Teach 80 undergraduate students each year in Microeconomics, Macroeconomics and Econometrics.	<i>2017 - Present</i>
Research Assistant <i>With Professors Oleg Itskhoki, Ben Moll and Esteban Rossi-Hansberg</i> <ul style="list-style-type: none">• 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.	<i>2016 - 2019</i>

HONORS AND AWARDS

Princeton University Graduate Fellowship	<i>2015 - Present</i>
Princeton University Graduate School Teaching Prize - top 0.2% of graduate teachers	<i>2020</i>
German National Merit Foundation - top 0.5% of German students	<i>2011 - 2017</i>

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, Double ML)

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