GEORGE L. SORG-LANGHANS

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- Highly skilled in deep learning, machine learning, causal inference and their intersection
- 6+ years of programming (focus on Python) and 7+ years of economic modeling experience
- Strong interest in computer science, with courses completed in algorithms and programming systems
- Passionate about teaching and working collaboratively; awarded Princeton-wide teaching prize

EDUCATION

Princeton University, USA - Ph.D. in Quantitative Economics   Expected 2021
Dissertation topics: Deep Learning, Machine Learning and Applied Macroeconomics

Princeton University, USA - M.A. in Quantitative Economics   2017

Trinity College Dublin, Ireland - B.A. in Economics   2015
First Class Honors Degree and recipient of the Trinity Gold Medal (top 0.4% of class)

RESEARCH PROJECTS

A Deep Learning Algorithm for High-Dimensional Dynamic Programming Problems: Developed a novel deep learning approach capable of solving state-of-the-art large scale models with more than 75 state variables.

Topic Modeling for the Economic Reports of the President: Used natural language processing approaches to extract topics from Presidential Reports in order to evaluate causal relationship between taxes and growth.

Sources of US Wealth Inequality: Built an overarching model to identify the dominant cause of wealth inequality.

LEADERSHIP & RESEARCH EXPERIENCE

Graduate Teaching Assistant, Princeton University   2017 - Present
- Teach a range of introductory courses with 80+ students each term.

McGraw Fellow, Princeton University   2019 - Present
- Train all incoming economics instructors in best practices of teaching and classroom inclusivity.

Course Organizer, Princeton University   2018
- Organized the largest course at Princeton, Introduction to Microeconomics, with 450+ students.

Research Assistant to Professor Ezra Oberfield, Princeton University   2016
- Programmed a dynamic model of the economy to connect human capital formation to balanced growth.

Research Assistant to Professor Philip R. Lane, Trinity College Dublin   2014
- Investigated the empirical connection between government debt and growth for the Geneva Report.

SCHOLARSHIPS & AWARDS

Princeton University Graduate Fellowship: *Fully funded tuition and stipend*   2015 - Present

Princeton University Graduate School Teaching Prize: *Awarded to top 0.2% of graduate teachers*   2019

Princeton Economics Department Teaching Prize: *Top economics graduate teacher out of 100*   2018

German National Academic Foundation: *Merit-based scholarship awarded to 0.5% of students*   2012 - 2017

Scholar of Trinity College Dublin: *Merit-based scholarship awarded to top 0.8% of year*   2013 - 2015

SKILLS & INTERESTS

Programming: Python, Java, SQL, C, Stata, Assembly, Object Oriented Programming and Algorithms

Statistics & Machine Learning: Causal Inference (Experiments, IV, DiD, RDD), Deep Learning, Natural Language Processing, Predictive Modeling, Machine Learning for Causal Inference, Unsupervised Learning

Interests: Traveling, Cooking with friends, Squash, Computer science, Hiking, Reading, Board games