# GEORGE L. SORG-LANGHANS

+1 (609) 865-2241 | langhans@princeton.edu | LinkedIn | Website

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

## EDUCATION

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

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

**Trinity College Dublin, Dublin, Ireland - B.A. in Economics**                    2015
First Class Honors Degree and recipient of the Trinity Gold Medal

## RESEARCH PROJECTS

**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 Extraction For the Economic Reports of the President:** Natural language processing approach to extract topics from web scraped Presidential Reports to evaluate causal relationship between taxes and growth.

**Sources of US Wealth Inequality:** Built an overarching model to compare competing theories of wealth inequality.

## LEADERSHIP AND RESEARCH EXPERIENCE

**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 in Princeton, Introduction to Microeconomics, with 450+ students.

**Graduate Teaching Assistant,** Princeton University                    2017 - Present

**Research Assistant to Dr. Ezra Oberfield,** Princeton University                    2016

**Research Assistant to Dr. Philip R. Lane,** Trinity College Dublin                    2014

## SCHOLARSHIPS & AWARDS

**Princeton University Graduate School Teaching Prize**                    2019

**Princeton Economics Department Teaching Prize**                    2018

**Princeton University Graduate Fellowship**                    2015 - Present

**Scholar of Trinity College Dublin**                    2013 - 2015
- Merit based scholarship awarded for academic excellence (given to 0.5% of class)

**German National Academic Foundation (Studienstiftung des deutschen Volkes)**                    2012 - 2017

## SKILLS & INTERESTS

**Programming:** Python (TensorFlow, Pandas, Scikit-Learn), Java, SQL, C, Stata, Assembly, Object Oriented Programming and Algorithms

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

**Interests:** Traveling, Cooking with Friends, Squash, Computer Science, Hiking, Reading and Board Games