Xin Ning

Blacksburg, VA
919-931-7057 • xning1106@gmail.com • xin–ning • xning11

Expertise

Languages: Python, MySQL, Stata, R, Matlab, LaTeX

Libraries: pandas, numpy, matplotlib, plotly, scipy, statsmodels, sklearn, tensorflow, sqlalchemy

Data Science: Logistic and Linear Regressions, Classification, Random Forests, Clustering, A/B Testing, Experimentation, Data Visualization, Feature Selection and Engineering

Econometrics: Longitudinal Data, Time Series, Causal Inference, Survival Analysis, CGE Simulation, Market Demand, Treatment Effects, Bayesian Inference

Education

Ph.D., Economics **Dec 2019**
Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA, USA

B.S., Economics **Jun 2014**
Nanjing Audit University, Nanjing, China

Experience

Postdoc Researcher, *Virginia Tech* **Jan 2020–present**
- Developing the Center for Agricultural Trade's global bilateral trade simulation (Computable General Equalibrium) model to estimate the counterfactual impacts of trade policies and issues.

Data Science Fellow, *Insight Data Science* **Sep 2019–Dec 2019**
- Consulted with an E-learning start-up company to evaluate their user referral program;
- Queried over 200K+ user-level data across 20+ tables in their relational database and generated 30+ feature metrics to predict user referral rates;
- Built a machine learning pipeline by iteratively selecting features and examining feature importances to increase quality user referrals and accelerate business growth (with 85% model accuracy).

Graduate Researcher, *Virginia Tech* **Aug 2015-Sep 2019**
- Proposed a demand system to examine market shocks caused by food safety outbreaks using 22-year monthly data, which found nonlinear changes in consumer preferences over imported commodities;
- Developed a hazard model to estimate the impact of non-tariff measures (NTMs) on US and global agricultural exports using millions of product-line trade data over 20 years, which quantified a 3%-8% increase of the probability of exit of trade relationships owning to the presence of NTMs;
- Applied an empirical model to estimate the trade import elasticities using preferential tariffs, which was cited by USDA to estimate the 2018 trade damage assessment with China and Mexico.

Instructor, *Virginia Tech* **Aug 2017-May 2019**
- Designed syllabus and rubrics for the undergraduate level *principle of microeconomics* and organized small group activities to improve students' learning experience (full-semester);
- Lectured *math*, *statistics* and *econometrics* review sessions for first-year Ph.D. students' qualifying exams and *international trade and finance* for senior Ph.D. students' field research (multiple sessions).

President, *Graduate Student Assembly, Virginia Tech* **Aug 2017-May 2019**
- Organized the annual fundraising event and raised a total of $2300 to support graduate students' events, allowing us to grow connections among students, faculty and staff members;
- Facilitated *Food, Health and Development Economics Lab* workshops and seminar activities to improve collaborations across research fields.