

FANGNING YAN

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Education

Boston University

Sep 2016 – May 2022 (expected)

Ph.D., Economics | Dissertation Title: Empirics of Firms' Strategies in New Industries

Boston, MA

Dean's Fellowship and Assistantship | Summer Research Grant

Davidson College

Aug 2011 – May 2015

B.S., Mathematics (with Honors) and Second Major in Economics, Cum Laude

Davidson, NC

Dean's Fellowship | William D. Vinson Mathematics Award | Avinger Entrepreneur Scholarship

Skills

Programming: Proficient in R, STATA, MATLAB, L^AT_EX and Basics in Python, SQL, Linux, SAS.

Languages: English (fluent), Chinese (native); German (beginner), Korean (beginner).

Professional Experience

Charlotte Bobcats (Now Hornets), NBA Team

Sep 2013 – May 2014

Basketball Analytics Intern

Charlotte, NC

- Operated the SportVU 3D cameras during the Bobcats home appearances to capture player and ball movement throughout the game. Constantly monitored the system under intense pressure to ensure accurate data collection.
- Performed regression analysis and applied proprietary algorithms to raw SportVU data to predict player behavior and performance. Reported the results to the Bobcats' Director of Basketball Analytics.

Technekes, LLC

May 2013 – August 2013

Summer Data Coordinator and Assistant Business Planner

Charlotte, NC

- Developed a new business model for Connex.io, in preparation for Fall 2013 product launch.
- Evaluated and created pricing model, staffing plans, and development strategies; generated the annual report.
- Performed due diligence on data service industry; made contact with numerous providers to obtain details of offerings.
- Inspected and improved over 40,000 customer profiles for campaign managers to streamline marketing strategies.

Shanghai Stock Exchange

May 2012 – July 2012

Summer Data Coordinator and Assistant Developer

Shanghai, CHINA

- Conducted research on Facebook and developed an easier-to-use online user platform which allows the Exchange to sell its marketing analysis results to customers online. Contributed to the implementation of the cloud drive technology.
- Utilized statistical tools to analyze the performance of 1351 stocks over the past five years.

Research Experience

Boston University Department of Economics

Sep 2016 – Present

Ph.D. Researcher (Fields: Industrial Organization, Applied Econometrics, and Economics of Digitization)

Boston, MA

- Utilized a spatial structural model to study the dockless bike-sharing in China. Validated the model with a big dataset of more than 50 million observations and attributed a daily loss of 300 thousand trips to the spatial mismatch between consumers and bikes.
- Implemented an event study framework to examine how a start-up company's financial conditions affect its investment decisions. Consolidated empirical evidence that investments only boosted business performance for a short time.
- Collected data of the U.S. automobile industry in 1900 – 1950 and revisited a model of industry shakeout.

Davidson College

August 2014 – March 2016

Research Assistant

Davidson, NC

- Recorded vacant land sales data of Manhattan conveyances from the 1900 – 1923 archives. Created datasets of land sales based on the size, shape, and location of each land lot.
- Conducted research on Barker sequences with particular focus on probabilistic aspect and generalizations for the honors thesis in mathematics, "Expected Peak Sidelobe Level of Random Sequences".

Teaching Experience

Boston University

Sep 2017 – Present

- Undergraduate-level classes: Empirical Economics I&II, Business Experimentation and Causal Methods.
- Graduate-level classes: Econometrics, Statistics for Economists, Business Experimentation and Causal Methods.
- Held weekly office hours and discussion sessions. Orchestrated the transition to online instructions during the pandemic.

Davidson College

Fall 2013 – Spring 2015

- Classes: Calculus II, Linear Algebra, and Differential Equations.
- Assisted professors with grading, weekly office hours, and course management.