

# Tianpei (Tony) Liu

425 Washington Blvd, Jersey City, NJ, 07310

(513)888-5251 [tianpei.liu@nyu.edu](mailto:tianpei.liu@nyu.edu)

---

## EDUCATION

**New York University**, New York, NY

05.2017

*Master of Arts, Major in Economics, Department of Economics, Graduate School of Arts and Sciences*

- Courses: Applied Statistics I & II, Dealing with Data, Machine Learning, Financial Econometrics, Big Data, Design & Development of Web Based Systems, Data Structure and Algorithm, Fundamental Algorithm
- GPA:3.93/4

**Peking University**, Beijing, China

07.2015

*Bachelor of Science, Major in Economic Geography, Minor in Economics, College of Urban and Environmental Sciences*

- Awarded with The Okamatsu Scholarship & Third Prize for Excellent Research
- 

## PROFESSIONAL EXPERIENCE

**Chinese Academy of Social Sciences**, Beijing, China

05.2014 -06.2015

*Research Assistant at Institute of World Economics and Politics*

- Monitored data entry, warehousing, and visualization for Chinese External Economy Monthly/Quarterly
  - Accelerated graph visualization with a self-developed powerful routine with VBA
  - Sustained management of official affair and organized academic meetings
- 

## RELATED PRACTICAL & ACADEMIC PROJECTS

**Forecasting short term volatility of oil prices**

03.2016-04.2016

- Ensured that our project followed a right schedule and our goal was delivered as the leader of the group
- Implemented various time series tools to model volatility of crude oil price daily change rate for forecasting in R
- Assessed machine learning methods to investigate volatility with deep exploration of how to write step-by-step optimization scripts in Python

**Understanding Job Openings - with data-dealing techniques**

04.2016-05.2016

- Pulled, stored, and interpreted 3 million data entries from job posting sites using Python, Pandas, and Linux
- Built up a constantly updated database and a real-time visualization online portal through R, MySQL and, Tableau

**Investment Portfolio Design - Human Development Fund**

10.2015-11.2015

- Utilized spreadsheet for fundamental analysis and efficient frontier

**The Future of 99%--An Examination of Occupational Mobility**

10.2015-12.2015

- Data cleaning and sorting combined with evaluation of factor weights under OLS MLE algorithm
- 

## PUBLICATION

**Arcgis-based Analyses on the Structure of Houses and Housing Prices in Beijing**

11.2014

- Tianpei, L., Chengyu, Q., & Jian, F. (2014). Arcgis-based Analyses on the Structure of Houses and Housing prices in Beijing. *Chinese Statistics*.(11), 18-19.
- 

## LEADERSHIP EXPERIENCE

**Chair of Graduate Union of The High School Attached to Northwest Normal University**

10.2012-09.2014

- Coordinated 2 lecture and 2 networking events each year for high school graduates and student to network; topics included choosing universities and passing exams; 1000 students participated

**Vice Director of External Affairs, Student Union of Peking University**

10.2014-05.2015

- Programmed A Wonder Road Through the Desert in which about 100 students participated every year
- 

## VOLUNTEER EXPERIENCE

**Volunteer, Parent-Teachers Conference at Stuyvesant High School**

05.2016

---

## SKILLS

- Language: Native in Mandarin Chinese

- Statistics & Computer: Proficient in Python, R, Scenario analysis, MySQL, Linux, Excel, and PowerPoint, notions in C++, and Matlab