VICTORIA WEI CHEN

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wEiconomics.com

Skilled data scientist and problem solver with 3+ years of industry & academic experience

- **Analytical problem solver** - 3+ years experience in solving real-world problems. Consultant for the World Bank and United Nations on predictive modeling, causal inference & data analysis. Selected as Max Planck Fellow for expertise on behavioral analysis & experimental design.
- **Impactful communicator** - Adjunct professor at Fordham University, with an average rating of 4.8/5.0. Conference speaker at Women in Data Science, Cambridge University, and MIT Sustainable Urbanization Lab.
- **Applied data scientist** - Ph.D. Economics (data analysis & econometrics), Fordham University and MS Computer Science, University of Pennsylvania. 5+ years experience in applying Python, R, Stata, Matlab, SQL, Spark, AWS, Machine learning, Tableau, etc.

EXPERIENCE

United Nations, NY **May 2021 - June 2021**
Consultant

The World Bank, Washington, D.C. **April 2018 - Present**
Consultant

- Built Gradient Boosting Classification algorithm to predict technology access's impact on economic indicators and disadvantaged groups using DHS and IPUMS data sets (36M size, 1,873 variables).
- Proposed solutions for disadvantaged groups in low & middle- income countries.
- Developed a statistical training course for survey design for the World Bank Staff.

Max Planck Institute for Demographic Research, Germany **May 2020 - December 2020**
Visiting Researcher

- Applied Machine Learning methods to predict the effect of the COVID-19 pandemic on future births in the United States in the *Laboratory for Digital and Computational Demography at the Max Planck Institute*.
- Published in the Institute of Labor Economics(IZA) Working Paper Series, and major media outlets, such as The Economist, The BBC, Le Monde, Yahoo! Finance, The Atlantic, The Telegraph, and Brookings Institution.

Fordham University, NY **August 2018 - Present**
Adjunct Professor for Macroeconomics

- Instructor for Macroeconomics. Design and deliver economics courses to interact effectively with students.

Columbia University, NY **May 2018 - December 2018**
Research Intern

- Produced recommendations on labor supply using R & Stata to analyze longitudinal panel data set -- (66M size, 1,493 variables). Published in *the Journal of the Economics of Aging*.

United Nations Department of Economic and Social Affairs, NY **July 2017 - September 2017**
Research Intern

- Analyzed DHS and census data using R and Python to advance understanding of disabilities. Published results in the UN Disability Flagship Report for 2018 United Nations General Assembly.

New York Life Insurance **2013 - 2014**
Data Analyst

- Generated and analyzed data to determine trends and provide analysis on key metrics. Created and automated timely and user-friendly reports.

SKILLS

- Python, SQL, Java, C, R, Stata, Matlab, Latex, Git, Machine Learning, Big data & statistical analysis
- Languages: Chinese (Native), French (Beginner)

SELECT DATA SCIENCE & SOFTWARE PROJECTS

Insider Trading Social Network **June 2018 - December 2020**

- Built an extensive insider trading network model to exterminate the impact of the political network on insider trading
- Utilized Python, Stata & R to mine and analyze data from 3,500 Chinese public firms, municipal politician activities, macroeconomic indicators, and firm-level financial data Visualized network with over 2 million edges and synthesized conclusions using network analysis and Gephi visualization software Produced and co-authored a research paper on insider trading in China with UPenn professor Dr. X. Gu, and St. John's professor Dr. Y. Zhu

Net Worth Forecaster **March 2019 - May 2019**

- Created and designed a Java application for user net worth estimation & forecasting. Implemented JavaFX UI frontend & client, incorporating real-time pricing data APIs
- Developed a Python-based time-series and GBDT forecast model within-sample accuracy of 82%

New York City Rental Pricing Prediction **August 2019**

- Built an Android App using random forests to predict rental prices in NYC based on Streeteasy data

EDUCATION

Fordham University, NY August 2021

Ph.D. Candidate in Economics, *GPA: 3.8/4.0*

Concentrations: Econometrics, Data Science, Demographic and Labor Economics, Machine Learning

University of Pennsylvania, PA Anticipated Graduation: December 2021

M.S. in Computer and Information Technology, *GPA: 3.7/4.0*

Database & Software Development, Machine Learning, Algorithms & Computation

New Mexico State University, NM August 2010 - May 2012

M.A. in Economics, *GPA: 4.0/4.0*

Fujian Agriculture & Forestry University, China September 2006 - July 2010

B.A. in International Economics & Trade

HONORS & AWARDS

· Research Fellowship at Max Planck Institute, Germany, 2020

· Presented in Women in Data Science (WiDS) Cambridge, 2021

· 1st place & People's Choice from UPenn Winter Hackathon, 2020

· 1st place of UPenn Summer Hackathon, 2019

· Davidson Endowed Scholarship, 2016 - 10% acceptance

PUBLICATION & WORKING PAPERS

- Mitra, S., Gao, Q., Chen, W., and Zhang, Y. (2020). "Health, Work, and Income among Middle-aged and Older Adults: A Panel Analysis for China." *The Journal of the Economics of Ageing*, 17: 100255.
- Wilde, J., Chen, W., Lohmann, S. (2020). "Covid-19 and the Future of US Fertility: What Can We Learn from Google?" *IZA Working Paper*, DP No. 13776.
- Mitra, S., Chen, W., Herv´e, J., and Yap, J. (2020) "Invisible or Mainstream? Disability in Surveys and Censuses in Low- and Middle-Income Countries", World Bank Working Paper Series.
- Mitra, S., Chen, W., Herv´e, J., and Yap, J. (2020) "Inclusive Statistics: Human Development and Disability Indicators in Low- and Middle-income Countries", World Bank Working Paper Series.
- Chen, W. (2020). "Do Pensions Reduce Debt? Evidence from China's New Rural Pension Scheme".
- Chen, W., Gu, X., Hasan, I., Zhu, Y. (2020). "Loyalty, Cooperation and Perks: Insider Trading in a Harmonious Society".
- Han, H., Chen, W., Scazzero, J. (2018). "Endowment Analytics for the Richest Universities by Machine Learning".
- Wilde, J., McLaren, Z., and Lohmann, S., Chen, W. (2019). "Temperature, Behavior, and the Internet: What Can We Learn From Google Searches?".