

# WEI FU

## Ph.D. in Economics

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🌐 <https://fu-wei.net/>

## SELECTED PROJECTS

### NIH Grant Expansion, Ancestral Diversity, and Scientific Discovery in Genomics Research

with Shin-Yi Chou and Li-San Wang

📅 2021 **Dissertation**

- We curated textural records for over 2,700 Genome-Wide Association Studies articles between 2005 and 2016 using text mining.
- We scraped author and grant information from PubMed.
- We utilized a difference-in-difference model to causally estimate the impact of NIH grant expansion on ancestral diversity in genomics research.

Python R Stata Econometrics Causal Inference Web Scraping

### Unemployment Insurance, Food Insecurity and SNAP Takeup Behavior

with Chen Huang and Feng Liu

📅 2022 **American Journal of Agricultural Economics**

- We utilized a two-way fixed effect model to causally estimate the substitution effect between UI and SNAP Program.

Stata Econometrics Causal Inference Policy Evaluation

### The Prediction of Alzheimer's Disease through Multi-Trait Genetic Modeling

with Li-San Wang, Shin-Yi Chou, Jung-Ying Tzeng, Wan-Ping Lee, Kaylyn Clark, and Chia-Lun Liu

📅 2021 **On-Going Project**

- We constructed Polygenic Risk Scores for multiple diseases using millions of human genetic DNA genotyping data.
- We constructed a Meta-GRS model to predict AD onset incorporating pleiotropic correlation from non-AD diseases.
- We utilized elastic-net regression to train our model, and logistic regression and survival analysis for model evaluation.

R Big Data Analysis Machine Learning Econometrics

### Unemployment Insurance and Cigarette Smoking

with Feng Liu

📅 2019 **Journal of Health Economics**

- We utilized a two-way fixed effect model to causally estimate the impact of UI on smoking behavior.

Stata Econometrics Causal Inference Policy Evaluation

## TEACHING (ADJUNCT LECTURER)

Applied Econometrics (Undergraduate and Graduate Mixed)

Lehigh University 📅 Spring, 2021

MBA Quantitative Elements (Graduate-Level)

Lehigh University 📅 Summer 2019

Econometrics (Undergraduate-Level)

Lehigh University 📅 Spring 2019

Statistical Methods (Undergraduate-Level)

Lehigh University 📅 Summer 2018, Spring 2019

## EDUCATION

Post-Doctoral Researcher

Perelman School of Medicine

University of Pennsylvania

📅 2020 – Present 📍 Philadelphia, US

Supervisor: Prof. Li-San Wang

Ph.D. in Economics

Department of Economics

Lehigh University

📅 2016 – 2020 📍 Bethlehem, US

Advisor: Prof. Shin-Yi Chou

M.Phil in Economics

Department of Economics

Shanghai University of Finance and Economics

📅 2012 – 2016 📍 Shanghai, China

Withdrew from the master-doctoral program.

BA in Economics

Department of Economics

Huazhong University of Science and Technology

📅 2008 – 2012 📍 Wuhan, China

## ANALYTIC SKILLS

Big Data Analysis Machine Learning

Econometrics Causal Inference

Policy Evaluation

## PROGRAMMING

Python R Stata SQL

## AWARDS

- Elizabeth V. Stout Dissertation Award, Lehigh University, 2020.
- Presidential Fellowship, Lehigh University, 2016-2017.

## SERVICES

Reviewer for Academic Journals:

- Health Economics ×4,
- Journal of Human Resources ×1,
- American Journal of Health Economics ×1,
- China Economic Quarterly ×1.