Jia Liu
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Education

- **University of Houston** — Houston, TX
  Ph.D. of Economics — *2017 – Present*
- **Binghamton University (SUNY)** — Binghamton, NY
  M.A. of Economics — *2015-2017*
- **Renmin University of China** — Beijing, China
  M.A. of Environmental and Natural Resources Management — *2013-2015*
- **Renmin University of China** — Beijing, China
  B.S. of Environmental Science — *2009-2013*
  B.A. of Agricultural

Research

- **Working Papers**
  One-child Policy, Pension Reforms and Household Saving Rates in China
  - **Research Question**: This paper examines the impact of the One-child policy and pension reforms on household savings in China using an overlapping generations model.
  - **Methodology**: Build and solve an overlapping generations model incorporating inter-generational transfer, endogenous fertility, human capital investment and pension system. Simulate the one-child policy and pension benefit changes using the model with calibrated parameters to examine the policy effects.
- **Work in Progress**
  Pension Reform, Child Investment and Household Saving in China
  - **Research Question**: Examine empirically the effects of pension reform on household savings and investment in children in China.
  - **Methodology**: Use difference in difference method with household survey data to estimate the effects.

Projects

- **Consumption habits**: The goal is to examine the consumption habits and individual price with Nielsen consumer panel data. Use big data set from individual survey to estimate the habits coefficients and constructed individual price indices and examine their correlation.
- **Income process estimation**: Simulate and estimate an AR(1) income process with heterogenous growth rate using GMM. Assume that the income process includes a heterogenous growth rate, a random walk component, an AR(1) process, and measurement error. Then estimate the parameters of all the components using GMM method with simulated data to test the estimation method.
- **Irrigation and Innovation**: Examine the relationship between innovation and irrigation empirically using GIS data. Construct an exogenous measure of irrigation potential of each region based on geography and climate characteristics from global Argo-Ecological Zones(GAEZ) database. Combine this with innovation data (R&D activities, patent application and so on) from World Bank and examine their relationship.

Skills

- **Programming**: Python, Julia, Matlab
- **Statistics and other**: R, Stata, LATEX, MS Office

Honors and Awards

- **Graduate Fellowship**: University of Houston, 2017-present
- **Graduate Fellowship**: Binghamton University (SUNY), 2015-2017
- **First Prize Scholarship (National Inspirational scholarship)**: Renmin University of China, 2010-2012
- **Tsang-hinchi Scholarship**: Renmin University of China, 2010-2012
- **RUC scholarship for international summer camp**: Renmin University of China, Summer 2011

Presentations

- 2019: Missouri Valley Economic Association.