

## NICOLE GOLDEN

**Personal Information**      **Cell:** (616) 888-9881      **Website:** [NicoleGolden.github.io/Economics/](https://NicoleGolden.github.io/Economics/)  
**Email:** [qinqiy1@uci.edu](mailto:qinqiy1@uci.edu)      **Nationality:** US

**Research Interests**      Machine Learning, Big Data  
Applied Econometrics

**Education**      **UC, Irvine**      2019 September - Present  
PhD Student, Economics  
Cumulative GPA: 3.8/4.0  
  
**UC, Irvine**      2019 September - 2021 May  
MA, Economics  
Cumulative GPA: 3.8/4.0  
  
**University of Iowa**      2017 August – 2019 August  
BA, Economics, Mathematics  
Cumulative GPA: 3.98/4.00  
*Phi Beta Kappa*

**Relevant Courses**      Machine Learning for Data Science (Spring, 2022), Big Data, Panel Data  
Microeconomic Theory, Econometric Theory, Advanced Applied Microeconomics

**Data Experience**      **Deep Data Lab (UC, Irvine)**      2021 Spring - Present  
Research Assistant  
Report to: Dr. Matthew Harding

- Deal with approximately 500GB Nielsen dataset that contains 16 years of records, with millions of entries.
- Help clean data until it is fit for our policy-related analysis.
- Help conduct price index related analysis. For example, compare price indexes among different states or metropolitan areas.
- Visualize price indexes for different metropolitan groups and states.
- Help with other research-related work, such as formatting research papers.

**EcoMetricx (Irvine)**

2022 February – Present

Energy Company Consultant

- Translate data analysis pipelines from Python to R.
- Support the firm's top economist to build optimal models to analyze energy usage. The data includes monthly electricity and gas usage for 2021 and 2022. The analysis intends to study the average treatment effects by comparing the control group (which is not exposed to any energy-saving programs) and the treated groups (which are exposed to multiple energy-saving programs).
- Help the firm run models and generate reports.

**Second-Year Research (UC, Irvine)** 2021 - Present

- Independently conduct data analysis using Nielsen dataset.
- Study milk consumption patterns among migrants in the US using difference-in-differences model.
- Visualize migration maps across US and other analysis related plots.

**Other  
Experience****UC, Irvine**

2019 - Present

Teaching Assistant

- Taught five quarters undergraduate level courses, including social science statistics, econometrics, and intro microeconomics.
- Prepared tailored course materials for the right course and students' levels.
- Taught students coding in R or Stata if required by the course.

**Italki**

2013 - 2019

Online Mandarin Teacher

- Taught 812 lessons to 123 students from 31 countries (located in 5 continents); earned an overall full-point review from all students.
- Wrote various creative teaching materials designed for different levels of students.
- Experienced language and cultural exchange with students from different countries.

**Hays Specialist Recruitment  
(Shanghai) Co., Ltd**

2015 - 2016

Sales Administrator

- Performed administrative work for HR personnel from four countries, including formatting at least 40 resumes daily, updating Suzhou branch financial reports daily, weekly, and monthly, updating recruiting database daily, and doing other support work.
- Communicated with candidates over the phone and face-to-face in professional manner.
- Acted as administrative liaison for all offices in China as needed.
- Assisted in organizing office events and annual HR conferences.

## Skills

**Programming:** Advanced: R (RStudio, Jupyter Notebook)

Proficient: Stata, Python, Git, GitHub, Excel

Basic: HTML5, CSS

Data Analysis in R: data cleaning, intro ML analysis (popular models), cross-sectional data analysis, panel data analysis, causal inference, geo-spatial analysis, data visualization

Efficient programming in R: parallel computation, data analysis in chunks, pipelines

Other: Jupyter Notebook, Latex

**Languages:** Native level: Mandarin; Huai Dialect

Fluent level: English

Intermediate level: Spanish

Conversational level: French