Xiaohan (Jessica) Wu

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EDUCATION

The University of Texas at Austin	Austin, TX
Ph.D. in Marketing, Quantitative Methods	May 2028 (Expected)
The University of Texas at Austin	Austin, TX
Master of Arts, Economics	May 2023
The University of Texas at Austin	Austin, TX
Bachelor of Arts, Economics	May 2021
Minor: Business; Certificate: Applied Statistical Modeling	

FIELDS OF INTERESTS

Fields: Quantitative Marketing, Applied Econometrics, Causal Inference, Machine Learning

PUBLICATIONS

Jiao, J., **Wu, X.** [1], Chen, Y. and Farahi, A. (2023), **"How the single-family residence housing market capitalizes green property upgraded features: evidence from city of Austin"**, *International Journal of Housing Markets and Analysis*, Vol. ahead-of-print No. ahead-of-print. https://doi.org/10.1108/IJHMA-07-2023-0095

WORKING PAPERS

Jiao, J., **Wu, X.** [2], Chen, Y. and Farahi, A., **"Comparing the impacts of COVID-19 on residential rental market across rental sectors: evidence from City of Austin"** (Revising for the second round at *Cities*, Preprint on SSRN)

CONFERENCE ABSTRACT

Chen, Y., Jiao, J., Farahi, A. and **Wu, X.**, **"Assessing the nonlinearity and disparities in impacts of accessibility factors on residential property values during the pandemic through Bayesian modeling: The case of the Austin, Texas, 2018-2021"** (ACSP2023 Annual Conference)

RESEARCH EXPERIENCE

Red McCombs School of Business, The University of Texas at Austin	Austin, TX
Graduate Research Assistant	*Aug 2023 - Present*

Urban Information Lab, The University of Texas at Austin	Austin, TX
Graduate Research Assistant - Dr. Junfeng Jiao	*May 2022 - Aug 2023*

- Collected MLS housing data and conducted data cleaning, data visualizations, and statistical analysis by *Python*.
- Drafted the manuscripts for co-authored working papers, and served as the corresponding author.

Department of Economics, The University of Texas at Austin	Austin, TX
Graduate Research Assistant - Dr. Nitya Pandalai-Nayar & Dr. Olivier Coibion	*Jul 2021 - Jul 2023*

- Designed *Stata* code to append data of 5000+ companies from an HTML news database and improve the data quality.
- Assisted the head RA to track and manage the peer RAs' data collection progress and performance.
- Solved *Python* code running issues for peer RAs as a *Project IT Help Desk* member.

Graduate Research Assistant - PhD. Candidate Lauri Kytömaa	*May 2022 - Sep 2022*

- Researched the foreclosure prevention policies and bank loan modification practices. This work is in direct support of Lauri's Job Market Paper.

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[1] corresponding author
[2] corresponding author

- Conducted data cleaning, data visualizations, and statistical analysis by *Python* and *Stata*, including using *NumPy, Pandas, Scipy* and *Matplotlib* libraries.

Undergraduate Research Assistant - Dr. Nitya Pandalai-Nayar & Dr. Olivier Coibion   *Feb 2021 - Jun 2021*
- Conducted web scraping to collect data of 400+ companies from an HTML news database by *Python*.
- Constructed shock series by *Stata* and analyzed data to find the correlation between different series.

Undergraduate Research Fellow - PhD. Candidate Lauri Kytömaa   *Jan 2021 - May 2021*
- Researched the impacts of Payroll Protection Program loans to small businesses during COVID-19 pandemic.
- Conducted data cleaning, data visualizations, and statistical analysis by *Python* and *Stata*.
- Prepared initial investigation report and literature reviews, and reached out to industry participants.

Teaching Experience

Red McCombs School of Business, The University of Texas at Austin   Austin, TX
Graduate Teaching Assistant   *Aug 2023 - Present*
- Fall 2023: MKT 282-51 Analysis of Markets   Ty Henderson

Academic Projects

Market Validation   Austin, TX
Practicum Project for Texas Venture Lab   *Aug 2022 - Dec 2022*
- Conducted product validation and market sizing analysis for a pre-revenue startup and a post-revenue startup.

Job Market Overview   Austin, TX
Course Project for Python, Databases, & Big Data   *Jan 2022 - May 2022*
- Designed and executed 5+ web scraping scripts to collect 5000+ job postings from the Indeed website by *Python*.
- Led the team to complete data mining and statistical analysis by *Python* and *SQL*, and wrote the GitHub report using *Markdown* and *Latex*.

State-level Energy Policy   Austin, TX
Term Paper for Causal Inference & Research Design   *Jan 2022 - May 2022*
- Researched the effects of state-level energy policies on carbon emissions by conducting RDD, IV, and DiD analysis.
- Conducted data cleaning, data visualizations, and statistical analysis by *R* and *Git* environment.

Forecasting Electricity Demand   Austin, TX
Academic Poster for Time Series Econometrics   *Jan 2022 - May 2022*
- Forecasted residential electricity demand by constructing time series model and conducting time series analysis.
- Conducted data cleaning, data visualizations, and statistical analysis by *Stata*.

Applications of the Auction Process   Austin, TX
Term paper for Economics of Auctions   *Oct 2020 - Dec 2020*
- Researched the methods to implement the auction process for equity transactions in private equity real estate funds.
- Assisted the portfolio manager at Real International Realty to implement the auction process for his clients.

Mini-Ethnography   Austin, TX
Term paper for Research and Writing about Culture   *Jun 2018 - Aug 2018*
- Researched social interaction, thoughts, and conflicts stimulated by Japanese animation culture at UT Austin.
- Attended regular activities held by UT and Austin Anime Club to complete the ethnography research folder.

Other Employment

The Concord Group   Austin, TX
Research Assistant   *Jan 2023 - Mar 2023*
- Performed primary research on real estate subjects and entities, and surveyed real estate professionals (city planners, leasing agents) to gain insight into markets.
- Utilized data from varied sources to create reports and maps by *ArcGIS* for client presentation.

Red McCombs School of Business, The University of Texas at Austin   Austin, TX
Data Analytics & Technology Intern   *Aug 2022 - Apr 2023*
- Designed career management reports and dashboards for 2000+ alums and students in MBA programs.

- Conducted data collection, entry and analysis, statistical tracking, and dash-boarding by *Python* and *Power BI*.

Philanthropy Southwest, RGK Center for Philanthropy and Community Service Austin, TX
Connect Data Consulting Fellow *May 2022 - Oct 2022*
- Conducted a socio-economic impact study with the team from Center for Nonprofit and Philanthropy at TAMU.
- Conducted data collection, entry and analysis, statistical tracking, and dash-boarding by *Python* and *Tableau*.

AngelouEconomics Austin, TX
Research Analyst *Aug 2021 - May 2022*
- Assisted Dr. Matt Patton in 10+ projects, including economic impact studies and feasibility studies.
- Conducted data mining and regression analysis; shaped conclusions and designed the layouts of formal reports.

Ernst and Young Beijing, China
Risk Advisory Intern *Jul 2018 - Aug 2018*
- Assisted the IT consulting team to implement a new IT system for a Beijing-based fortune 500 company.
- Refined a data collection-storage system for 5+ manufacturing facilities and analyzed the data for 2000+ employees.

Honors and Awards

The University of Texas at Austin

Graduate School Recruitment Fellowship	Fall 2023
McCombs School Fellowship	Fall 2023
Connect Data Consulting Fellowship	Summer 2022
Master's Merit-based Tuition Reduction	Fall 2021
Undergraduate Research Fellowship	Spring 2021
University Honors	Fall 2018, Spring 2019, Fall 2020, Spring 2021
Omicron Delta Epsilon Economics Honor Society	2018-2021

Additional Skills

- **Software**: Python, R, Matlab, Stata, ArcGIS, Bash, SQL, Git, Latex, C++, Power BI, Processing, Tableau, Three.js
- **Languages**: Mandarin(native), English(bilingual proficiency), Japanese(basic)