

# Zahra Khanalizadeh (She/Her)

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## Education

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| <b>University of Washington</b><br>Ph.D. in Economics<br><i>Advisors: <a href="#">Alan Griffith</a> and <a href="#">Jason Kerwin</a></i>  | Seattle, WA<br>2021 – 2026 ( <i>Expected</i> ) |
| <b>Smith School of Business, Queen's University</b><br>M.Sc. in Management, Analytics<br><i>Thesis: Market Efficiency and Bidder Pay-offs in Double-Sided Auctions (Advisor: <a href="#">Guang Li</a>)</i>  | Ontario, Canada<br>2021                        |
| <b>Sharif University of Technology</b><br>M.Sc. in Economics<br><i>Thesis: Comparing the Market Equilibrium in the Pay-as-Bid and Uniform Price Settings of Auctions in Wholesale Electricity Markets (Advisors: <a href="#">M.H. Rahmati</a> and <a href="#">M. Vesal</a>)</i> | Tehran, Iran<br>2020                           |
| <b>Sharif University of Technology</b><br>B.Sc. in Computer Engineering (Software)  | Tehran, Iran<br>2017                           |

## Research Interests

Development Economics, Labor Economics, Causal Inference, Experimentation, Causal Machine Learning

## Research in Progress

- Extending the Reproductive Horizon: Exploring Beliefs, Preferences, and Decision-Making**  
*Co-authored with [Negar Ziaeeian](#)*
- Prioritized Ranking Experimental Design Using Recommender Systems in Two-Sided Platforms**  
*Co-authored with [Mahyar Habibi](#) and Negar Ziaeeian; Presented at [CODE@MIT 2024](#); Available on [arXiv](#)*
- Distinguishing Biases from Personal Preferences: An 'Honest' Machine Learning Approach**  
*Co-authored with Mahyar Habibi and Negar Ziaeeian*

## Select Coursework

Econometric Theory, Applied Microeconomics, Development Economics, Causal Modeling, Design and Analysis of Experiments, Machine Learning, Deep Learning, Non-parametric and Empirical Industrial Organization

## Work Experience

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| <b>Teaching Assistant, <i>University of Washington</i></b><br><ul style="list-style-type: none"><li><i>Courses:</i> Microeconomics, Macroeconomics, Probability and Statistics, Elements of Statistical Methods</li><li>Instructed and facilitated exercises, led labs and office hours, and assessed assignments and exams.</li></ul> | 2022 – Present |
| <b>Research Assistant, <i>Smith School of Business</i></b><br><ul style="list-style-type: none"><li>Conducted numerical analysis on the pricing behavior of sellers in online marketplaces.</li><li>Ran experiments and executed tests including Markov chain convergence tests and time series stationarity tests.</li></ul>          | 2021           |

## Skills

**Programming:** Python, R, Stata, MATLAB, SQL, Excel; Familiar with C/C++, Java, HTML, CSS, JavaScript  
**Technologies:** Git, Jira, Unix-based OS, MongoDB, Agile; Familiar with Spark, and Azure.  
**Libraries/Packages:** Pandas, NumPy, SciPy, Scikit-learn, PyTorch, Seaborn, Tidyverse, ggplot2  
**Quantitative:** Econometric Modeling, Causal Inference, Hypothesis Testing, Experimental Design

## Honors and Awards

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| <b>Graduate School Conference Presentation Award</b> ( <i>University of Washington</i> ) | 2024 |
| <b>Jeff McGill Graduate Fellowship</b> ( <i>Queen's University</i> )                     | 2021 |
| <b>Third Place in Nationwide University Basketball Games</b>                             | 2019 |
| <b>Ranked 8<sup>th</sup> in the National Scientific Olympiad in Economics (Iran)</b>     | 2017 |
| <b>Ranked Top 0.1% in Nationwide University Entrance Exam (300,000 applicants, Iran)</b> | 2012 |