

# Xiaoyu (Fisher) Yu

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## EDUCATION

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<b>Ph.D. in Economics</b> , Rice University, Houston, TX	<i>Expected May 2023</i>
• Job Market Paper: <i>Bundle Choice with Limited Consideration: An Application to Yogurt</i>	
• References: Xun Tang, Robin Sickles, Maura Coughlin, Arun Gopalakrishnan	
<b>M.A. in Statistics</b> , Rice University, Houston, TX	<i>Expected May 2023</i>
<b>M.Sc. in Economics</b> , University of Wisconsin-Madison, Madison, WI	<i>May 2017</i>
<b>B.Sc. in Statistics</b> , School of Management, Fudan University, Shanghai, China	<i>Jul 2015</i>

## SKILLS

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**Research:** Discrete Choice Model, Structural Estimation, Causal Inference, Statistical Machine Learning  
**Programming & Software:** R, Julia, MATLAB, Stata, Python, SQL, SAS, UNIX, AWS, LaTeX  
• **Certificates:** *Databases and SQL for Data Science with Python (with Honors)*, *Machine Learning with Python*, *AWS Machine Learning Foundations Nanodegree Program*  
**Language:** English (Fluent), Mandarin (Native), Spanish (Beginner)

## EXPERIENCE

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<b>Researcher</b> , Department of Economics, Rice University, Houston, TX	<i>Sep 2019–present</i>
• Analyzed consumers' demand in grocery shopping from <b>large datasets</b> on retail and household scanner, uncovered preferences for stores and products under more realistic behavioral assumptions via advanced econometric tools, and implemented sophisticated <b>estimation procedures in Julia and R</b>	
• Simulated and estimated complex <b>structural economic models</b> in empirical industrial organization and labor economics, and solved computational challenges with <b>high performance computing clusters</b>	
• Studied the spillover effects of natural disasters on local deposit rates via geographic adjacency and social interaction using a <b>spatial difference-in-difference method in R and Stata</b>	
• Applied the <b>double robust machine learning</b> approach to <b>policy evaluation</b> for an intervention program, estimated <b>the average treatment effect</b> allowing for high-dimensional heterogeneity	
• Produced 4 research papers, and <b>presented</b> in 4 regional and international academic conferences	
<b>Information Assistant</b> , Jones Graduate School of Business, Houston, TX	<i>Jun 2022–present</i>
• Facilitated students' digital access to various <b>databases for business research</b> in the information center	
• Led a team of Rice students on <b>improving customer service</b> at the circulation desk	
<b>Research Assistant</b> , Department of Economics, Rice University, Houston, TX	<i>Aug 2018–May 2019</i>
• <b>Cleaned datasets in Stata</b> and set up a game theory model for household retirement decisions	
• Implemented a <b>simulation and testing procedure in MATLAB</b> to confirm the relevance of strategic interactions in retirement decisions of couples using a new theoretical econometric framework	
<b>Teaching Assistant</b> , Department of Economics, Rice University, Houston, TX	<i>Aug 2017–present</i>
Selected courses: <i>Introduction to Econometrics</i> , <i>Advanced Econometrics</i> , <i>Macroeconomics</i> , <i>Business Law and Economics</i> , <i>Corporate Finance</i> , <i>Empirical Methods in Industrial Organization</i>	
• <b>Taught lab sessions on Stata and MATLAB</b> independently, prepared supplementary course materials, and graded assignments and exams for instructors	
• Explained economic concepts, data analysis methods and <b>econometric models</b> to undergraduates	

## Grants and Awards

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• Department of Economics Doctoral Fellowship (\$27,000 x 5), Rice University	<i>Aug 2017–May 2022</i>
• Social Sciences Research Institute's Graduate Conference Grants, Rice University	<i>Dec 2021</i>
• Best Academic Performance in Master Program, University of Wisconsin-Madison	<i>May 2017</i>
• First Prize of Outstanding Students, Fudan University	<i>Jul 2015</i>