## Junhao LIU

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## Skills

- Causal inference, experimental design and A/B testing, machine learning, behavioral economics
- Python, R, Stata, SAS, SQL, AWS Athena, Sagemaker

## Education

Ph.D. in Risk and Insurance, University of Wisconsin–Madison	2019
<ul> <li>Coursework: Ph.D. econometrics, machine learning, behavioral economics, industrial organization, insurance economics, risk management, actuarial modeling</li> </ul>	
M.S. in Mathematical Statistics, University of Cambridge	2012
<ul> <li>Coursework: operational research, time series and Monte Carlo inference, advanced financial models, stochastic networks, actuarial statistics</li> </ul>	
B.S. in Statistics and Mathematics (First Class Honors), University of Hong Kong	2011
<ul> <li>Coursework: statistical inference, probability and statistics, operations research, time series analysis, computational statistics, differential equations, functional analysis</li> <li>Finalist, S. T. Yao College Student Mathematics Contest (among the top 12 undergraduate students in Applied Math &amp; Statistics in China)</li> </ul>	
Experience and Projects	
Investment Strategist, Vanguard Australia	2022-now
<ul> <li>Led survey design and data analytical work in retirement and investor behavior research projects including How Australia Retires &amp; Investor Pulse surveys</li> </ul>	
<ul> <li>Leveraged large administrative data sets to study retirement plan participants with AWS Athena and Sagemaker</li> </ul>	1
<ul> <li>Drove effective collaborations with global research teams and local business stakeholders in investment product development, marketing, public relations, government relationships, and Vanguard Super</li> </ul>	
- Maintained a strong liaison among multiply stakeholders for an international joint venture	
Research Associate in Consumer Finance, University of Sydney	2019-2022
<ul> <li>Designed online experiments and applied discrete choice models and instrumental variables to study the effect of broker usage on consumers' mortgage preference</li> <li>Conducted 5 research projects on mortgages and retirement savings in collaboration with multidisciplinary scholars, industry partners and government regulators</li> </ul>	
- Coordinated and independently taught a business research methods class (evaluations 4.7/5)	
Ph.D. Candidate and Lecturer, University of Wisconsin-Madison	2014-2019
<ul> <li>Conducted 6 research projects in financial regulation and consumer finance</li> <li>Applied fixed effects regression, diff-in-diffs, and instrumental variables with panel data on</li> </ul>	
insurers and consumers to make causal inference	
<ul> <li>Taught key business analytics and actuarial courses with a Distinguished Teaching Award</li> <li>Developed an auto-grading system for student projects in a 700-student class and received a Dean's Letter of Recognition in Teaching Innovation</li> </ul>	
Actuarial Consulting Analyst, Milliman Inc., Shanghai, China & Brookfield, WI, U.S.	2013-2014
<ul> <li>Accomplished 20+ consulting projects on auto insurance pricing with GLM models in SAS, insurance reserve modeling, and health insurance experience study in Asia and the U.S.</li> <li>Desced 4 actuarial example in any user</li> </ul>	

- Passed 4 actuarial exams in one year