

Jin Miao

CONTACT INFORMATION	Room 13.206 Naveen Jindal School of Management Richardson, TX 75080, USA	<i>Mobile:</i> 469-449-2160 <i>E-mail:</i> Jin.Miao@utdallas.edu <i>Website:</i> jinmiaoamt.github.io
EDUCATION	University of Texas at Dallas , Richardson, TX Ph.D. Quantitative Marketing Aug 2020 - May 2026	
	Columbia University , New York City, NY M.S. Marketing Science Aug 2017 - May 2018	
	Tsinghua University , Beijing, China B.A. Economics & B.S. Psychology Aug 2013 - July 2017	
	Mannheim University , Mannheim, Germany Exchange Student Aug 2015 - Dec 2015	
RESEARCH INTERESTS	Substantive: Generative AI, Behavioral Industrial Organization, Probabilistic Goods Methodology: Generative AI, Large Language Model, Game-theoretic Model	
PUBLICATION	Designing Loot Boxes: Implications for Profits and Welfare Jin Miao, Sanjay Jain Marketing Science (2024) vol. 43, no. 6, pp. 1242–1259. Abstract: A loot box is a probabilistic allocation of virtual products, the exact outcome of which is known to consumers only after purchase. Consumers sometimes purchase these goods multiple times until their preferred products are obtained. As loot boxes have been gaining enormous popularity in recent years, they are often criticized as exploitative and socially wasteful. In this study, we develop a stylized model to study the optimal design of loot boxes and its impact on profits and social welfare. We find that firms may assign asymmetric probabilities to <i>ex ante</i> symmetric products. Firms could use loot boxes to offer products at low prices to users who would not buy these products under the traditional pricing strategy. Loot boxes enable firms to earn higher profits due to better price discrimination and market expansion. Contrary to the widespread criticism of loot boxes as socially harmful, our analysis reveals that the loot box strategy can improve social welfare. Some platforms promise that consumers can obtain their preferred products with no more than a certain number of purchases. Contrary to conventional wisdom, our analysis reveals that such a strategy can increase firm's profits while reducing consumer welfare.	
WORKING PAPER	Pricing of Services: An Analysis of the Impact of Availability Bias with Sanjay Jain	
WORK IN PROGRESS	ProductGPT: A Generative Model of Consumer Decision Dynamics in Limited-Time Product Offerings with Fanglin Chen, Ying Xie Design Rollover Policy in Subscription Economy with Haokun Du, Sanjay Jain	

HONORS AWARDS SCHOLARSHIPS	ISMS Doctoral Dissertation Early-Stage Grant, Finalist	Spring 2025
	Outstanding Teaching Award	Fall 2024
	AMA-Sheth Foundation Doctoral Consortium Fellow	Summer 2023
	Betty and Gifford Johnson Travel Awards	Summer 2023
	Graduate Student Assembly Travel Award	Summer 2023
	Center for Teaching and Learning (CTL) Fellow	Spring 2023
	Doctoral Scholarship	Fall 2021 - Spring 2026
	University Fellowship for Remote Studies	Fall 2020 - Summer 2021
	Academic Excellence Scholarship, Tsinghua University	Fall 2016
	Baden-Württemberg-Stipendium, Mannheim University	Fall 2015
TEACHING INTERESTS	Large Language Models in Marketing, AI-Driven Content Creation	
	Digital Marketing, Pricing Analytics and Strategy, New Product Development	
INSTRUCTOR	Principles of Marketing (BBA-Marketing) <i>solo instructor</i> (Class Size: 56, Teaching Evaluation: 5.0/5.0) <i>Outstanding Teaching Award</i>	Fall 2024
	Principles of Marketing (BBA-Marketing) <i>solo instructor</i> (Class Size: 48, Teaching Evaluation: 4.8/5.0)	Fall 2023
TEACHING ASSISTANTSHIP	Principles of Marketing (BBA-Marketing)	Fall 2021, Spring 2022, Spring 2025
	Digital Sales Strategy (MS-Marketing)	Spring 2025
	Predictive Analytics for Data Science (MS-Marketing)	Spring 2024
	Social Media Marketing (BBA-Marketing)	Fall 2021, Spring 2022
	Category Buying (BBA-Marketing)	Spring 2022
	E-Retailing (BBA-Marketing)	Spring 2022
	Marketing Management (MS-Marketing)	Fall 2021
CONFERENCE PRESENTATION	INFORMS Marketing Science Annual Conference	Washington DC, June 2025
	BizAI Annual Conference	Richardson TX, March 2025
	INFORMS Marketing Science Annual Conference	Miami FL, June 2023
	Production and Operations Management Conference	Orlando FL, May 2023
SELECTED DOCTORAL COURSEWORK	Marketing / Business	
	Analytical Models in Marketing	Dmitri Kuksov
	Empirical Models in Marketing	Ying Xie
	Digital Marketing	Ram Rao
	Dynamic Models in Economics and Marketing	Shervin Tehrani
	Behavioral Industrial Organization and Marketing Strategy	Sanjay Jain
	Empirical Industrial Organization in Economics and Marketing	Joonhwi Joo
	Empirical Models in Marketing	Oded Netzer (<i>Columbia</i>)
	Mathematical Models in Marketing	Rajeev Kohli (<i>Columbia</i>)
	Bridging Behavioral Decision-Making with Marketing Science	Ran Kivetz (<i>Columbia</i>)

Statistics, Optimization, & Machine Learning

Advanced Probability and Statistics

Optimization

Bayesian Data Analysis

Causal Inference

Deep Learning

Nonparametric Statistics

Numerical Analysis

Applied Multivariate Statistics

Machine Learning

Khai Chiong

Milind Dawande

Qiwei Li

Yunan Wu

Pankaj Choudhary

Sam Efromovich

Saikat Biswas, Yunan Wu

Kamel Jedidi (*Columbia*)Georgios Lentzas (*Columbia*)**Economics**

Advanced Managerial Economics

Game Theory

Advanced Game Theory

Industrial Organization Theory

Econometrics I, II, III

Advanced Microeconomics

Kyle Hyndman

Gary Bolton

Dmitri Kuksov

Jianqing Chen

Donggyu Sul, Dong Li

Geoffrey Heal (*Columbia*)*Last Update: March 2025*