Qian Zhang (Kenneth)

PHD STUDENT · BUSINESS ANALYTICS & OPERATIONS

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https://github.com/kennethgianzhang

Education_

University of Pittsburgh Pittsburgh, PA

Ph.D. IN BUSINESS ANALYTICS & OPERATIONS

2019.08 - present

Advisor: Prof. Arian Aflaki. Prof. Esther Gal-Or

Penn State University State College, PA

M.A. IN THEORETICAL ECONOMICS

2016.08 - 2018.05

Advisor: Prof. Ran Shorrer

the University of Tokyo Tokyo, JP 2013.04 - 2016.07

M.A. IN ECONOMICS

• Advisor: Prof. Michihiro Kandori, Prof. Akihiko Matsui

Research Interest

Primary Fields: Customer behavior in operations, revenue management and pricing, information design, platform design, supply chain management, machine learning applications

Methodologies: Game Theory, Optimization, Econometrics, Machine Learning

Publications ___

PUBLISHED

Zhang, Q., "Mechanism Design Implementation Strategy in Industrial Policy Applications", Book Chapter in "Recent Developments in New Structural Economics: The First Winter Conference of New Structual Economics", by Justin Yifu Lin, etc., Peking University Press, 2016 (In Chinese)

In Review

Zhang, O., w/ Arian Aflaki, Is Your Price Personalized? Alleviating Customer Concerns with Inventory Availability Information, Submitted & Under Review in *Operations Research*

Zhang, Q., w/ Ran Shorrer, Strategic Application & Preference Submission Timing in Constrained School Choice Matching, Submitted & Under Review in Game & Economic Behavior

READY FOR SUBMISSION

Zhang, Q., w/ Arian Aflaki, Review Platform Design with Reference Effects

Zhang, Q., w/Y., Peng, Y., Tao, & Pandu Tadikamalla, A Multi-attribute Group Decision Making Method based on a New Score Function under Hesitant Intuitionistic Fuzzy Linguistic Term Sets Environment

WORKING PAPER

Zhang, Q., w/ Arian Aflaki, Multi-Dimensional Optimal Rating Design

Zhang, Q., w/ Jinyong Jeong, Dynamic Information Revelation as Matching with Contracts

Zhang, Q., w/ Esther Gal-Or, Luying Wang, Opitmal Bayesian Persuasion Regulation Design with firm's R&D Incentive

Zhang, Q., Pattern Recognition for Dividend Forecasting: Deep Learning Approach

Zhang, Q., School Choice Matching with Incomplete Information on the School Side: Sampling Equilibrium Approach

Zhang, Q., The Evolution of Preference under OLG Model with Imperfect Information, Probabilistic Election and Coalition

Teaching	Experience				
Spring 2023	Data Mining (Graduate Level), Instructor				
	Evaluations: 4.74/5, with response rate 52.63%,	J			
	Master of Science Student Choice Awards for Outstanding Teaching,				
Fall 2021	Statistical Analysis (Graduate Level), Instructor	University of Pittsburgh			
	Evaluations: 4.70/5, with response rate 63.16%,				
Fall 2023	Applied Economics (Executive Doctor of Business Administration), Teaching Assistant				
Fall 2022	Quantitative Research Methods (Executive Doctor of Business Administration), Teaching				
	Assistant				
Spring 2022	Statistical Analysis (Graduate Level), Teaching Assistant				
Fall 2021	Statistical Analysis (Graduate Level), Teaching Assistant				
Spring 2021	Data Mining (Graduate Level), Teaching Assistant				
Spring 2021	Decision Technology in Operations Management (Graduate Level), Teaching Assistant				
Spring 2021	Statistical Analysis (Graduate Level), Teaching Assistant				
Fall 2020	Statistical Analysis (Graduate Level), Teaching Assistant				
Fall 2017	Development Economics (Undergraduate Level), Teaching Assistant	Penn State			
Spring 2017	Microeconomics (Undergraduate Level), Teaching Assistant				
Spring 2016	International Econmoics (Undergraduate Level), Teaching Assistant				
Spring 2016	Advanced Microeconomics (Graduate Level), Teaching Assistant	U-Tokyo			
Fall 2015	Microeconomics (Undergraduate Level), Teaching Assistant				
Fall 2015	Mathematical Economics (Graduate Level), Teaching Assistant				
Spring 2015	Advanced Microeconomics (Graduate Level), Teaching Assistant				

Presentations ___

1. IS YOUR PRICE PERSONALIZED? ALLEVIATING CUSTOMER CONCERNS WITH INVENTORY AVAILABILITY INFOR-

*2023 INFORMS Annual Meeting (2023 October, Pheonix AZ, USA)

2023 INFORMS Annual Revenue Management & Pricing (RMP) Section Conference (2023 July, London, UK)

*2023 MSOM Annual Conference (2023 June, Montreal, Canada)

*2023 POMS Annual Conference (2023 May, Orlando FL, USA)

*2022 DSI Annual Conference (2022 November, Houston TX, USA)

2. PRICING & RATING SYSTEM DESIGN WITH REFERENCE EFFECT

*2023 DSI Annual Meeting (2023 November, Atlanta GA, USA)

3. MECHANISM DESIGN IMPLEMENTATION STRATEGY IN INDUSTRIAL POLICY APPLICATIONS

*2015 New Structural Economics Annual Conference (2015 December, Beijing China)

4. THE EVOLUTION OF PREFERENCE UNDER OLG MODEL WITH IMPERFECT INFORMATION, PROBABILISTIC ELECTION AND COALITION

^{*} presenting author

*2016 Japanese Game Theory Annual Conference (2016 February, Tokyo JP)

*2015 University of Tokyo Microeconomics Seminar (2015 October, Tokyo JP)

Awards, Fellowships, & Grants _____

2023	Master of So	cience Stud	ent Choi	ce Award	s for (Outstandi	ng Teac	hing, ι	Jniversity	of

Pittsburgh

Dean's PhD Merit Scholar, University of Pittsburgh

2022 Sheth PhD Fellowship, Sheth Foundation

Dean's PhD Merit Scholar, University of Pittsburgh

- 2021 Geroge G. Main Fellowship, University of Pittsburgh
- 2019 2020 Myra G. Mervis Fellowship, University of Pittsburgh
- 2016 2018 Teaching Assistant Scholarship, Penn State University
 - 2016 Annual Research Grant (DC 1), Japan Society for the Promotion of Science (JSPS)
 Special Research Fellowship, Japan Society for the Promotion of Science (JSPS)
 Research Assistant Scholarship, the University of Tokyo
 - 2015 **Scholarship for Academic Excellence**, the University of Tokyo **Teaching Assistant Scholarship**, the University of Tokyo

Industrial Experience & Services ____

MEDIA REFERENCE

Personalizing the Prices While Keeping Customers Happy

The FinReg Blog, Sponsored by the Duke Financial Economics Center, January 2023

INDUSTRIAL EXPERIENCE

Gusto Remote

RESEARCH SCIENTIST/DATA COMPETITION PROJECT

• Initiated and created the real-time-post-leads Conversion Score Prediction model for R&D Tax Credit

Bloomberg L.P.Data Scientist/Specialist
2018.05 - 2019.07

• In charge of BDVD (Dividend Forecasting) product for Japan Market, covering more than 3,000 Japanese companies

- Initiated and led the Dividend Forecasting global expansion project, increased global coverage from 8,000 to 21,000 and accuracy by 41% using Machine Learning models such as RNN, LSTM, and Time Series models
- Participated in News Headline and Material Automation using NLP models, such as RoBERTa model
- Performed pattern recognition and forecasting model analysis for various financial products such as Index Membership and VC screening process evaluation with non-linear patterns

Japan Society for the Promotion of Science(JSPS)

Tokyo, JP

SPECIAL RESEARCH FELLOW (DC 1)

2015.04 - 2016.07

2022 05 - 2022 08

- Conducted theoretical research on the Industrial Policy implementation mechanism in Japan and China
- Constructed a mathematical model to build the structured hypothesis for examining the effects of network links and industrial policy implementation mechanisms on firms' technological competitive advantage
- Collected and analyzed data using Econometrics and Causal Inference models