Qian Zhang (Kenneth)

PHD CANDIDATE · 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: Arian Aflaki **Penn State University** State College, PA 2016.08 - 2018.05 M.A. IN THEORETICAL ECONOMICS Advisor: Ran Shorrer The University of Tokyo Tokvo, JP M.A. IN ECONOMICS Advisor: Michihiro Kandori **University of International Business & Economics** Beijing, China B.A. IN ECONOMICS / LAW Research Interest ___ Areas: Information design, platform design, mechanism design, consumer behavior in operations, revenue management and pricing, supply chain management, machine learning applications Methodologies: Game theory, optimization, econometrics, machine learning Publications **UNDER REVIEW & WORKING PAPERS**

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

Zhang, Qian, w/Ran Shorrer, Strategic Application & Preference Submission Timing in Constrained School Choice Matching, Under Review in Games and Economic Behavior

Zhang, Qian, w/ Arian Aflaki, Rating Platform Design with Reference Effects, In Preparation for Submission

Zhang, Qian, 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, In Preparation for Submission

In Progress

Zhang, Qian, w/ Esther Gal-Or, Luying Wang, Optimal Regulation Paradigms Design with firm's R&D Incentive Zhang, Qian, School Choice Matching with Incomplete Information on the School Side: Sampling Equilibrium Approach Zhang, Qian, The Evolution of Preference under OLG Model with Imperfect Information, Probabilistic Election and Coalition

Zhang, Qian, Pattern Recognition for Dividend Forecasting: Deep Learning Approach

MEDIA REFERENCE

Personalizing the Prices While Keeping Customers Happy
The FinReg Blog, Sponsored by the Duke Financial Economics Center, January 2023

BOOK CHAPTERS

Zhang, Qian, "Mechanism Design Implementation Strategy in Industrial Policy Applications",

Book Chapter in "Recent Developments in New Structural Economics: The First Winter Conference of New Structural Economics", by Justin Yifu Lin, etc., Peking University Press, 2016 (In Chinese)

PROFESSIONAL SERVICES

Ad-Hoc Reviewer

European Journal of Operational Research Communications in Statistics - Theory and Methods Decision Science Institute Annual Conference 2023

Teaching Experience _____

INSTRUCTOR (UNIVERSITY OF PITTSBURGH)

Spring 2023 Data Mining (Graduate Level), Evaluations: 4.60/5

Master of Science Student Choice Awards for Outstanding Teaching

Fall 2021 Statistical Analysis (Graduate Level), Evaluations: 4.61/5

TEACHING ASSISTANT (UNIVERSITY OF PITTSBURGH)

2023 Advanced Topics in Applied Microeconomics (Executive Doctor of Business Administration)

2022 Quantitative Research Methods (Executive Doctor of Business Administration)

2020 - 2022 Statistical Analysis: Uncertainty, Prediction, and Quality Improvement (Graduate Level)

2021 Data Mining (Graduate Level)

2021 Decision Technology in Operations Management (Graduate Level)

TEACHING ASSISTANT (PENN STATE UNIVERSITY)

2017 Development Economics (Undergraduate Level)

2017 Microeconomics (Undergraduate Level)

2016 International Economics (Undergraduate Level)

TEACHING ASSISTANT (THE UNIVERSITY OF TOKYO)

2015 - 2016 Advanced Microeconomics (Graduate Level)

2015 Microeconomics (Undergraduate Level)

2015 Mathematical Economics (Graduate Level)

Presentations _____

1. Is Your Price Personalized? Alleviating Customer Concerns with Inventory Availability Information

*2023 INFORMS Annual Meeting (2023 October, Pheonix AZ, USA) (**Scheduled**: Session WB25, October 18, 9:30 AM - 10:45 AM, CC-North 131A)

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

^{*} presenting author

*2023 DSI Annual Meeting (2023 November, Atlanta GA, USA) (**Scheduled**: November 19, 10:00 AM - 11:30 AM, International Level, International Salon C)

3. MECHANISM DESIGN IMPLEMENTATION STRATEGY IN INDUSTRIAL POLICY APPLICATIONS

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

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

Awards, Fellowships, & Grants _____

- 2023 Master of Science Student Choice Award for Outstanding Teaching, University 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

Industry Experience ___

Two Sigma Remote

NATURAL LANGUAGE PROCESSING PROJECT

2022.12 - 2023.02

• Initiated and conducted Japanese financial news sentiment analysis using Deep Learning Models

Gusto Remote

RESEARCH SCIENTIST/DATA COMPETITION PROJECT

2022.05 - 2022.08

- Initiated the real-time-post-leads Conversion Score Prediction model for R&D Tax Credit using Deep Learning Models
- Achieved 2nd place award in the Gusto Internal Data Competition

Bloomberg L.P.

Tokyo, JP

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

Japan Society for the Promotion of Science(JSPS)

Tokyo, JP

SPECIAL RESEARCH FELLOW (DC 1)

2015.04 - 2016.07

- 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

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

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