

# Dai YAO

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## Education

PhD in Management (Marketing), INSEAD, 2009-2014  
MSc in Operations Management, Singapore Management University, 2007-2009  
B.Eng in Computer Science and Technology, Tsinghua University, 2002-2006

## Professional Experience

Associate Professor of Marketing, The Hong Kong Polytechnic University, 2021.09-  
Assistant Professor of Marketing, National University of Singapore, 2014.07-2021.06

## Research

### *Interests/expertise and topics*

† Development, Application, and Incubation (DAI) of Statistics, Artificial intelligence, Neuroscience, and Economics based (SANE) solutions for business problems, using a Data-driven, Analytics-rooted, and Intelligence-guided (DAI) approach  
† Digital economies; omnichannel; social influences; previews; free samples; pay-what-you-want; decision biases; emotion; satisfaction; spillover; nudge; learning; privacy

*Publications*    † equal authorship.    ‡ correspondence.    \* student when the project started.

1. Yao, Dai, Chuang Tang\*, and Junhong Chu (2022), "A Dynamic Model of Owner Acceptance in Peer-to-Peer Sharing Markets," *Marketing Science*, forthcoming.  
- [Github Repo](#), [SSRN](#), [Some relevant slides \(in Chinese\)](#)
2. Duong, Hai Long\*, Junhong Chu, and Dai Yao (2022), "Taxi Drivers' Response to Cancellations and No-shows: New Evidence for Reference-dependent Preferences," *Management Science*, forthcoming.
3. Lin, Yan, Dai Yao, and Xingyu Chen (2021), "Happiness Begets Money: Emotion and Engagement in Live Streaming," *Journal of Marketing Research*, 58(3), 417-438. († first two authors in alphabetical order)

- [Lead Article](#)

4. Lu, Shijie, Dai Yao, Xingyu Chen, and Rajdeep Grewal (2021), "Do Larger Audiences Generate Greater Revenues under Pay What You Want? Evidence from a Live Streaming Platform," *Marketing Science*, 40(5), 964-984.

- [SSRN All Time Top Ten Paper Lists](#)

5. Chen, Xingyu, Xing Li, Dai Yao, and Zhimin Zhou (2019), "Seeking the Support of the Silent Majority: Are Lurking Customers Valuable to UGC Platforms?" *Journal of the Academy of Marketing Science*, 47(6), 986-1004. († authors in alphabetical order)

- [Lead Article](#)

6. Chae, Inyoung, Andrew Stephen, Yakov Bart, and Dai Yao (2017), "Spillover Effects in Seeded Word-of-Mouth Marketing Campaigns," *Marketing Science*, 36(1), 89-104.
7. Lobo, Miguel Sousa, and Dai Yao (2021), "Human Judgment is Heavy-Tailed: Empirical Evidence and Implications for the Aggregation of Estimates and Forecasts," *Management Science*, conditional acceptance.

### *Selected working papers*

8. Li, Xi, Yacheng Sun, and Dai Yao, "In-Store Social Crowdedness and Customer Purchases," († authors in alphabetical order), reject and resubmit at *Marketing Science*.
9. Chen, Xingyu, Yan Lin, and Dai Yao<sup>†</sup>, "All Smiles Are Not Created Equal: Duchenne Smiles Reduce Extrinsic Rewards from Viewers in Live Streaming," († authors in alphabetical order), prep for submission at *Marketing Science* after rejection at *Frontiers*.
10. Yao, Dai, Shijie Lu, and Xingyu Chen, "Crowding-Out in Content Monetization under Pay-What-You-Want: Evidence from Live Streaming," major revision at *Production and Operations Management*.
11. Yao, Dai, Xing Li, and Xingyu Chen, "Ordeal by Innocence: Proactive Nudging and User Engagement in Online Communities."

### *Cases*

1. "Youliaodao in the Era of Paid Knowledge: Go Big or Go Home?" Chen, Xingyu, Ling Jiang, Li Ji, and Dai Yao<sup>†</sup>. [Ivey Publishing](#), [Harvard Business Publishing](#).
2. "Mobiuspace: Venturing into Emerging Markets," Chen, Xingyu, Li Ji, Ling Jiang, Shijie Lu, and Dai Yao<sup>†</sup>. [Ivey Publishing](#), [Harvard Business Publishing](#).

## Academic Presentations \* selected presentations by coauthors.

All Smiles Are Not Created Equal: . . .

- HNU, CN (2022); UWarwick (2022); NTU (IS, 2021)

A Dynamic Model of Owner Acceptance in Peer-to-Peer Sharing Market

- HKU (2022, deferred); Boston College (2021); UHouston (2018)

Social Impact of Viewer Engagement in Live Streaming

- *Theory+Practice in Marketing Conference*, Columbia Univ. (2019)

Ordeal by Innocence: . . .

- HNU, CN (2019); PKU-PHBS (2019)
- *Interactive Marketing Research Conference*, ULondon (2020, *cancelled*)

Prospect of Financial Rewards Induces Strategic Provision of Voluntary Content

- HEC Paris (2019)\*
- *NUS-Tsinghua Workshop on Digital Economy*, NUS (2019)

Content Monetization and Preview Design

- *Marketing Analytics Symposium at Sydney*, UNSW (2020); *Marketing Science Conference*, Univ. of Roma Tre & NYU, Italy (2019); *Marketing Dynamics Conference*, UMaryland (2019); *CMU-Temple Conference on Digital Marketing and Machine Learning*, CMU (2018); *NSFC-RGC Young Scholars Forum*, Harbin, China (2018)\*; *NUS-USTC Workshop on Data Driven Prescriptive Analytics*, NUS (2018)

Happiness Begets Money: Emotion and Engagement in Live Streaming

- HK PolyU (2021); THU (2020); PKU-Guanghua (2020); HK CityU (2020);
- *Marketing Science Virtual Conf*, Duke (2020); *The 18th Pre-ICIS Workshop on e-Business*, Munich, DE (2019)\*; *Conference on AI & ML, and Business Analytics*, Temple (2019)

Do Larger Audiences Generate Greater Revenues . . .

- XMU, CN (2018); Fudan (2017); PKU-Guanghua (2017)
- *China India Insights Conference*, Yale & INSEAD (2018); *NUS-Tsinghua Workshop on Digital Economy*, THU (2018); *The 12th Annual Bass FORMS Conference*, UTD (2018)\*; *Conference on Digital, Mobile Marketing, and Social Media Analytics*, NYU (2017)\*; *Marketing Dynamics Conference*, HKUST (2017); *Marketing Science Conference*, USC (2017)

Multi-Step Matching in Peer-to-Peer Sharing Markets

- *China India Insights Conference*, Yale & INSEAD (2018)\*; *INFORMS International Conference*, Taipei (2018); *JMS China Marketing Conference*, Jinan Univ. (2017)\*; *Marketing Science Conference*, Fudan (2016)\*

Online Retail in Developing Economies: Drivers of Product Returns

- OSU (2019); SZU-SABS, CN (2019)
- *MSOM Conference*, Dallas (2018)\*; *POMS Conference*, Houston (2018)\*

Taxi Drivers' Response to Cancellations and No-shows: . . .

- *Quantitative Marketing and Economics Conference*, UChicago (2018)\*

The Impact of Response Time in Matching Markets

- WHU, CN (2017); RUC, CN (2016); SZU, CN (2016);
- *JMS China Marketing Conf*, JNU, CN (2017)\*; *China Marketing International Conf*, UIBE, CN (2017)\*

Demand Estimation with Non-Constant Stochastic Variances: . . .

- HK PolyU (2017)
- *Marketing Dynamics Conf*, THU (2015); *Marketing Science Conf*, JHU (2015)

Multi-Feature Product Usage with Learning

- *INSEAD Brownbag Seminars* (2013); *Greater-China Conference on Mobile Big Data Marketing*, CUHK (2016); *Marketing Science Conference*, Istanbul (2013)

Why Customers Upgrade Their Reserved Options: . . .

- Wharton (2014)\*
- *Marketing Dynamics Conference*, Stanford (2014)

Human Judgment is Heavy-Tailed: . . .

- *Multidisciplinary Decision Science Symposium*, Singapore (2010); *INFORMS Annual Meeting*, UT Austin (2010)

## Discussant

Deep Network Representation Learning for Market Structure Discovery. Yi Yang, Kunpeng Zhang, and P.K. Kannan. *The 14th Bass FORMS conference*, UT Dallas, 2020

## Invited Presentations in Corporates

Sharing Economy, [Shine Wing International](#), Dec 2021 ([Github Repo](#), [Slides](#))

Asia Pricing & Revenue Management Summit, Aug 2019 ([link](#))

Mining Consumer Financing Data, [Visa Inc.](#), Feb 2019

Online Business and Digital Marketing, [6estates](#), Aug 2018

Mobile Games and Customer Lifetime Value, [Bolegames](#), Dec 2017

Multiple project specific presentations at collaborating firms including [PPzuche](#), [Shopee](#) (NYSE:SE), [Qiushibaike](#), [Mobiuspace](#), [AutoHome](#) (NYSE:ATHM), [Tsinghua XuetangX](#), [China Distance Education Holdings](#) (NYSE:DL, delisted), among others.

## Teaching

### *At HK PolyU*

MKT3851, Social Media Marketing, BBA, 2022-

MKT5831, Social Media Marketing, Taught Masters, 2022-

### *At NUS*

MKT3761E, Marketing in Social Networks, BBA, 2021

BMS5504, Marketing Analysis and Decision Making, Masters, 2018,2019,2020

MKT3421/MKT3811, Marketing Analysis and Decision Making, BBA, 2015-2020

DBA3702, Descriptive Analytics with R, BBA, 2019,2020

### *Others*

Invited Seminar on Live Streaming, PhD, NTU, 2022

## Students

### *At NUS*

2014-2019, Chuang Tang, initial placement at PKU HSBC Business School.

2014-2016, Yue Wang, initial placement at Singapore University of Social Science (SUSS).

## Grants

2022-2024 (PI), Postdoctoral Fellow Scheme (competitive), Faculty of Business, HK PolyU,  $\approx$  HKD 650,000

2021-2024 (PI), Start-up Grant, HK PolyU, HKD 500,000

2018-2020 (PI), Academic Research Fund (AcRF) Tier 1, MOE, Singapore, SGD 40,000

2017-2018 (Co-PI), Ng Teng Fong Charitable Foundation Research Fund, SGD 33,560

2015-2017 (PI), Humanities and Social Sciences Seed Fund, NUS, SGD 35,000

2014-now, Collaborator for multiple projects funded by NSF China

2014-2017 (PI), Start-up Grant, NUS, SGD 90,000

2013 (Co-PI), INSEAD Research Fund, € 1,800

2012, Data Grant from Wharton Consumer Analytics Initiative

## Services

### *Community*

Ad-hoc reviewer: *Marketing Science, Management Science, Journal of Marketing, Production and Operations Management, Journal of Interactive Marketing, Journal of Service Research, Journal of Marketing Management, MSI Alden G. Clayton Proposal Competition*

### *At NUS*

Quant seminar coordinator for the department: 2016.08-2018.07.

PhD committee member for the department: 2019.12-2021.06.

## Industrial Experience

Fulltime employee at Youdao.com ([NYSE:DAO](#), affiliated with Netease, [NASDAQ:NTES](#), 2007.03–07).

Fulltime intern/trainee at Microsoft Research Asia ([NASDAQ:MSTF](#), 2006.07–2007.03), International Data Corporation (IDC, affiliated with IDG Capital, 2006.03–06), Infosys ([NYSE:INFY](#), 2005.09–2006.03, [in India](#)), Sohu.com ([NASDAQ:SOHU](#), 2005.07–09), among others.

Juvenile explorations:

Trader, JPMorgan SG, Proprietary Trading (2008, *cancelled due to global financial crisis*).

Co-Founder, Yehtes Ltd. (2008, [200814214R](#), *struck off*).