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Homepage: <u>www.songyao.org</u> Office Phone: (314) 935-3307

SONG YAO

Olin Business School Washington University in St. Louis St. Louis, MO 63130, USA

PROF	ESSIONAL EXPERIENCE
	Principal Economist, Amazon.com Core AI Group, 2022-Present
	Associate Professor of Marketing (with tenure), Olin Business School, Washington University in St. Louis, 2019 – Present
	Associate Professor of Marketing (with tenure), Carlson School of Management, University of Minnesota, 2017 – 2019
	Assistant Professor of Marketing, Kellogg School of Management, Northwestern University, 2010 – 2017
	Visiting Scholar, Booth School of Business, University of Chicago, September 2016 – December 2016
	McManus Faculty Research Chair, Northwestern University, 2012-2013, 2014-2015
	Visiting Scholar, Graduate School of Business, Stanford University, September 2014 – December 2014
	Senior Lecturer of Marketing and Donald P. Jacobs Scholar, Kellogg School of Management, Northwestern University, 2009 – 2010
	Instructor, Duke University, 2007
<u>EDUC</u>	<u>CATION</u>
	Ph.D., Marketing, Duke University, 2009
	M.A., Economics, University of California, Los Angeles, 2004
	C.Phil., Economics, University of California, Los Angeles, 2003
	B.A., Economics, Renmin University of China, 1999

RESEARCH

Research Interests: Quantitative Marketing, Empirical Microeconomics, Advertising, New Technology, Auctions, Competitive Strategy, Customer Analytics.

Publication:

- 1. Raphael Thomadsen, Robert Zeithammer, and Song Yao (2023), "Impact of a Supreme Court Decision on the Preferences of Americans regarding Abortion Policy," *Management Science*, forthcoming
- 2. Daljord, Øystein, Carl F. Mela, Jason Roos, Jim Sprigg, and Song Yao (2022), "The Design and Targeting of Compliance Promotions," *Marketing Science*, forthcoming.
- 3. Zhao, Nan, Song Yao, Raphael Thomadsen, and Zack Wang (2022), "The Impact of Government Interventions on COVID-19 Spread and Consumer Spending," *Management Science*, forthcoming.
- 4. Seiler, Stephan, Anna Tuchman, and Song Yao (2021), "The Impact of Soda Taxes: Pass-through, Tax Avoidance, and Nutritional Effects," *Journal of Marketing Research*, 58(1), pp. 22-49.
 - o Finalist, Paul Green Award 2021

- Distinguished Winner, AMA-EBSCO-RRBM Award for Responsible Research in Marketing 2023
- 5. Liu, Meng, Raphael Thomadsen, and Song Yao (2020), "Forecasting the Spread of COVID-19 under Different Reopening Strategies," *Scientific Reports*, 10, 20367.
- 6. Bollinger, Bryan and Song Yao (2018), "Risk Transfer versus Cost Reduction on Two-Sided Microfinance Platforms," *Quantitative Marketing and Economics*, 16(3), pp. 251-287.
- 7. Seiler, Stephan, Song Yao, and Wenbo Wang (2017), "Does Online Word-of-Mouth Increase Demand? (and How?) Evidence from a Natural Experiment," *Marketing Science*, 36(6), pp. 838–861.
- 8. Seiler, Stephan, and Song Yao (2017), "The Impact of Advertising along the Conversion Funnel," *Quantitative Marketing and Economics*, 15 (3), pp. 241-278.
 - o Runner-up, Dick Wittink Prize 2018
- 9. Yao, Song, Wenbo Wang, and Yuxin Chen (2017), "TV Channel Search and Commercial Breaks," *Journal of Marketing Research*, 54 (5), pp. 671-686.
- 10. Chen, Yuxin and Song Yao (2017), "Sequential Search with Refinement: Model and Application with Click-stream Data," *Management Science*, 63(12), pp. 4345-4365.
- 11. Anja Lambrecht, Avi Goldfarb, Alessandro Bonatti, Anindya Ghose, Dan Goldstein, Randall Lewis, Anita Rao, Navdeep Sahni, Song Yao (2014), "How Do Firms Make Money Online?" *Marketing Letters*, 25, pp. 331-341.
- 12. Yao, Song, Carl F. Mela, Jeongwen Chiang, and Yuxin Chen (2012), "Determining Consumers' Discount Rates with Field Studies," *Journal of Marketing Research*, 49 (6), pp. 822-841.
 - o Winner, Paul Green Award 2012
- 13. Yao, Song and Carl F. Mela (2011), "A Dynamic Model of Sponsored Search Advertising," *Marketing Science*, 30 (3), pp. 447-468.
 - o Winner, 2009 AMA John A. Howard Award
 - o Finalist, 2011 INFORMS John D.C. Little Best Paper Award.
 - o Finalist, 2011, 2012 INFORMS Frank M. Bass Best Dissertation Paper Award.
 - o Finalist, 2019 INFORMS Long Term Impact Award
- 14. Yao, Song and Carl F. Mela (2009), "Sponsored Search Auctions: Research Opportunities in Marketing," *Foundations and Trends in Marketing*, 3 (2), pp. 75-126.
- 15. Yao, Song and Carl F. Mela (2008), "Online Auction Demand," *Marketing Science*, 27 (5), pp. 861–885.
 - o Finalist, 2008 INFORMS John D.C. Little Best Paper Award
 - o Finalist, 2017 INFORMS Long Term Impact Award

Working Paper:

Song, Yicheng, Wenbo Wang, and Song Yao, "Towards Interpretable Programmatic
Advertising via Deep Reinforcement Learning," Revise and Resubmit Information Systems
Research
Yoo, Hyesung, Song Yao, Ravi Bapna, and Jui Ramaprasad, "Search Frictions, Sorting and
Matching in Two-Sided Markets," Reject and Resubmit Marketing Science
Wang, Chong Bo (Zack), Qiyuan Wang, Tat Chan, and Song Yao, "Using Field Experiments
to Infer Cross-Side Network Effects in the Ride-Sharing Market," Reject and Resubmit
Marketing Science
Karaman, Hulya, Cheolho Song, Tat Chan, and Song Yao, "Spillover Effects of Online
Reviews: Evidence from the Hotel Industry."

	Yoo, Hyesung, Maria Ana Vitorino, and Song Yao, "Hospital Competition and Quality Under Regulated Prices: Evidence from the Entry of High-Speed Train in South Korea."
	Zhang, Kenan, Hongyu Chen, Song Yao, Linli Xu, Jiaoju Ge, Xiaobo Liu, and Yu (Marco) Nie, "An Efficiency Paradox of Uberization."
	Stephan Seiler, Song Yao, and Georgios Zervas "Causal Inference in Word-of-Mouth Research: Methods and Results," in preparation for <i>Customer Analytics for Maximum Impact: Academic Insights and Business Use Cases</i> , Taylor & Francis (CRC Press), edited by S. Seetharaman.
W	ork in progress
	Wang, Zack, Yanyi Leng, Nan Zhao, Stephen Nowlis, Song Yao (2023), "The Effect of External Goal Switch on Performance."
	Yoo, Hyesung, Song Yao, Luping Sun, Xiaomeng Du (2019), "Using Machine Learning to Address Customer Privacy Concerns: An Application with Click-stream Data."
Hono	DRS AND AWARDS
	Distinguished Winner, AMA-EBSCO-RRBM Award for Responsible Research in Marketing,
	2023
	Marketing Science Institute (MSI) Scholar, 2023
	Finalist, Paul Green Award 2021
	 Awarded annually by the American Marketing Association Foundation for the paper published in the <i>Journal of Marketing Research</i> and with the most potential to contribute to the practice of marketing research.
	Runner-up, Dick Wittink Prize, 2018.
	 Awarded annually to the best paper published in the preceding volume of the journal of Quantitative Marketing and Economics.
	Carlson School Dean's Small Grant, University of Minnesota, 2017
	Finalist, INFORMS Long Term Impact Award, 2017, 2019
	 Awarded annually by the INFORMS Society of Marketing Science to a marketing paper that is viewed to have made a significant long run impact on the field of Marketing.
	Marketing Science Institute (MSI) Young Scholars, 2017
	McManus Faculty Research Chair, Northwestern University, 2012-2013, 2014-2016
	Marketing Science Institute (MSI) Research Grant #4-1849, 2014 (joint with Yuxin Chen)
	Management Science Meritorious Service Award 2013
	Winner, Paul Green Award 2012
	O Awarded annually by the American Marketing Association Foundation for the paper published in the <i>Journal of Marketing Research</i> and with the most potential to contribute to the practice of marketing research.
	Invited Faculty Speaker, INFORMS Marketing Science Doctoral Consortium, Boston University, 2012
	Finalist, John D.C. Little Best Paper Award, Marketing/Management Science, 2011, 2009
	• Awarded annually for the best marketing paper published in Marketing Science/Management Science
	Finalist, Frank M. Bass Best Dissertation Paper Award, 2011, 2012
	 Awarded annually for the best marketing paper derived from a Ph.D. thesis published in Marketing Science/Management Science

Top 30 Reviewers for 2011 at Marketing Science (Fastest turnaround).
Faculty Impact Award for MBA teaching excellence, Kellogg School of Management,
Northwestern University, 2010
Winner, John A. Howard Dissertation Award, 2009
o Awarded annually by the American Marketing Association Foundation
NET Institute Summer Research Grant (with Carl F. Mela), 2008
Graduate Fellowship, Duke University, 2004-2009
Graduate Fellowship, University of California, Los Angeles, 2002-2004
EMIC AND PROFESSIONAL ACTIVITIES
Associate Editor
O Quantitative Marketing and Economics, 2021-
o Service Science, 2018-2021
Guest Associate Editor
o Marketing Science, 2023-
o Information Systems Research, 2019-2021
Editorial Review Board
o Journal of Marketing Research, 2011-
o Marketing Science, 2017-present
o International Journal of Research in Marketing, 2021-
Reviewer
o Management Science
o Journal of Marketing
o Journal of Economics and Management Strategy
o Marketing Letters
o Operations Research
Research Grants Council of Hong Kong
o Review of Marketing Science
o The Economics of Transition
o Social Sciences and Humanities Research Council of Canada (SSHRC)
Discussant for
o Choice Symposium, 2013
o China India Consumer Insights Conference, 2013
 Summer Institute of Competitive Strategy (SICS), University of California, Berkeley, 2012, 2013, 2016, 2017, 2019
o Quantitative Marketing and Economics Conference, Rochester 2011, USC 2014
o Big Data Marketing Analytics Conference, Chicago Booth, 2014, 2016
o Consumer Search and Switching Costs Workshop, UCLA, 2019
o Junior Faculty Development Forum, Washington University, 2023
Constantial
Guest speaker O Chicago Booth PhD seminar, 2012

CONF	ERENCE AND INVITED PRESENTATIONS (including scheduled)
	he Design and Targeting of Compliance Promotions,"
	Summer Institute of Competitive Strategy (SICS), Berkeley, CA, 2022
	UTD FORMS Conference, 2022
	Johns Hopkins University, 2022
Τ"	'he Impact of Soda Taxes: Pass-through, Tax Avoidance, and Nutritional Effects''
	University of Rochester, 2019
	Washington University in St. Louis, 2018
	Yale Customer Insights Conference, 2018
	University of Minnesota, Applied Microeconomics Summer Seminar Series, 2018
	INFORMS Marketing Science Conference, Philadelphia, PA, 2018
Т"	'he Impact of Advertising Along the Conversion Funnel."
	Yale Customer Insights Conference, 2017
	INFORMS Marketing Science Conference, Shanghai, China, 2016
	Does Online Word-of-Mouth Increase Demand? (and How?) Evidence from a Natural speriment,"
	Quantitative Marketing and Economics Conference, Northwestern University, 2016
	University of Minnesota, 2016
	The Seventh Annual Searle Center Conference on Internet Commerce and Innovation,
	Northwestern University, 2016
	University of California, San Diego, 2016
	University of Florida OM/IS Group, 2016
	University of Colorado, Boulder 2016
	Kellogg Attitudes Motivation and Processing (KAMP) Workshop, Northwestern University, 2016
	Big Data Marketing Analytics Conference at NYU Stern, 2015
	University of British Columbia, 2015
	Temple University, 2015
Γ"	'V Channel Search and Commercial Breaks," previously entitled "The Value of Sampling"
	University of Southern California, 2015
	University of Houston, 2015
	Stanford University, 2014
	Washington University in St. Louis, 2014
	INFORMS Marketing Science Conference, Atlanta, GA, USA, 2014
	equential Search with Refinement: Model and Application with Click-stream Data," previously itled "Search with Refinement"
	University of North Carolina at Chapel Hill, 2014
	Cornell University, 2014
	Third Annual Conference on Internet Search and Innovation, Northwestern University Law School, Chicago, USA, 2012

	INFORMS Marketing Science Conference, Boston, MA, USA, 2012
	Ohio State University, 2012
"Г	Determining Consumers' Discount Rates with Field Studies"
	Kellogg Marketing Camp, Northwestern University, 2012
	Marketing Dynamics Conference, Tilburg University, Netherlands, 2012
	Columbia University, 2012
	National Bureau of Economic Research Summer Institute, Cambridge, MA, USA, 2011
	INFORMS Marketing Science Conference, Houston, TX, USA, 2011
	Frank Bass–UTD FORMS Marketing Conference, Dallas, TX, USA, 2011
	China India Consumer Insights Conference, Beijing, China, 2010
" A	Dynamic Model of Sponsored Search Advertising"
	Yale University, 2010
	American Marketing Association Summer Educators' Conference, Chicago, IL, USA, 2009
	National Bureau of Economic Research Summer Institute, Cambridge, MA, USA, 2009
	NET Institute Conference, New York University, New York, NY, USA, 2009
	INFORMS Marketing Science Conference, Vancouver, Canada, 2008
	Cornell University, 2008
	Dartmouth College, 2008
	Emory University, 2008
	Georgia Institute of Technology, 2008
	Georgia State University, 2008
	Harvard Business School, 2008
	New York University, 2008
	Northwestern University, 2008
	Ohio State University, 2008
	Stanford University, 2008
	University of California, Berkeley, 2008
	University of Chicago, 2008
	University of Maryland, 2008
	University of Rochester, 2008
	University of Southern California, 2008
"C	Online Auction Demand"
	Frank Bass-UTD FORMS Marketing Conference, Dallas, TX, USA, 2008
	INFORMS Marketing Science Conference, Pittsburgh, PA, USA, 2006
<u>ADMI</u>	NISTRATIVE SERVICE
	PhD Advising
	Donggwan Kim (Washington University, dissertation committee member, initial)
	placement: Boston College)
	o Nan Zhao (Washington University, dissertation committee member, initial placement:
	Georgia Institute of Technology)

- Hyesung Yoo (Washington University, dissertation chair, initial placement: University of Toronto)
- Manuel Hermosilla (Northwestern University, dissertation committee member, initial placement: Johns Hopkins University)
- o Simha Mummalaneni (Northwestern University, dissertation co-chair, first year and second year summer papers, initial placement: University of Washington)
- o Tongtong Shi (Northwestern University, dissertation committee member, initial placement: Analysis Group)

WASHINGTON	LINIMATERCHAN	TAT C/T	Голис
WASHINGTON	UNIVERSITY	10.01.	LOUIS

- ☐ Service
 - o PhD Co-coordinator of Marketing Department, 2021-2022
 - o School Doctoral Program Committee, Member, 2021-2022
 - o School Undergraduate Program Committee, Member, 2021-2022
 - o School Promotion and Tenure Committee, Member, 2020
 - o Faculty Recruiting Committee, Chair, 2020

University of Minnesota

- □ Service
 - School Promotion and Tenure Committee, Chair, 2018-2019, Member, 2017-2018, 2018-2019
 - o PhD Recruiting, 2019
 - o Member, Department PhD Reunion Committee, 2018

Northwestern University

- ☐ Service
 - o Coordinator, Department Seminar Series, 2009-2010, 2013-2016
 - o Department Junior Faculty Recruiting, 2009-2012, 2013-2016
 - o Coordinator, Department Junior Faculty Recruiting, 2010, 2014
 - o Department Senior Faculty Recruiting Reading Committee, 2010, 2012
 - o PhD Recruiting, 2009-2014
 - o Full-time MBA Curriculum Committee, 2012
 - o Day at Kellogg (DAK) admission event mini-lecture instructor, 2012

TEACHING

WASHINGTON UNIVERSITY IN ST. LOUIS

	Instructor,	Customer A	nalytics ((Master	of Business.	Analytic	s and	MBA)	, 2020-
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University of Minnesota

Instructor, Digital Market	ing Analytics	(MBA and	Undergraduate), 2018-
Instructor, Customer Ana	lytics (MBA)	, 2019-		

	Instructor,	Quantitative	Marketing	Modeling	(PhD),	2019-
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Northwestern University

Instru	actor, Custor	mer Analvt	tics (MBA	.), 2010-2017
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- ☐ Instructor, Topics in Managerial Analytics (Undergraduate), 2013-2015
- ☐ Instructor, Introduction to Applied Econometrics II (PhD), 2011-2013

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2007