NIKHIL MALIK

Contact: +1 (323) 627-8520 E-mail: maliknik@marshall.usc.edu Office Address: 701 Exposition Blvd, HOH 317, Los Angeles 90089. Residential Address: 2968 W 7th St, Los Angeles 90005.

EDUCATION

Carnegie Mellon University Ph.D. in Business Technologies	Aug 2016 - Oct 2020 Pittsburgh, PA, USA
• One of the fastest to complete PhD in the past decade at the school	ol.
Carnegie Mellon University M.S. in Industrial Administration	Aug 2016 - May 2018 Pittsburgh, PA, USA
• GPA of 3.91 (on 4.0 scale) with a minor in Machine Learning.	
Indian Institute of Technology B.Tech. in Electrical Engineering	July 2007 - May 2011 Delhi, India
Awarded Best B.Tech project in Electrical Engineering department	•
WORK EXPERIENCE	
Marshall School of Business, USC Assistant Professor of Marketing (Tenure Track)	Aug 2021 - Present Los Angeles, CA
• Conducting research on AI, Blockchain and other disruptive techn	ologies in Marketing.
• Teaching graduate level course on Digital Marketing Technology.	
• Providing guidance to PhD students in Marketing on dissertation.	
Disseminating research through academic and conferences, public	cations and popular media.
• Consulting with industry on applying AI and Blockchain technolog	gies in Marketing.
Goldman Sachs Vice President, Quantitative Strategist	Nov 2020 - July 2021 Bengaluru, India
 Managing team of seven quantitative engineers and researchers a 	cross India, Poland and UK.
• Developing risk model to measure liquidity risk across firms \$300	Bn cash reserves.
 Designing quantitative methods and operational processes for opt 	timizing liquidity risk.
Tepper School of Business, CMU Instructor, Teaching and Research Assistant	Aug 2016 - Oct 2020 Pittsburgh, PA
Conducting research on Economics of AI and Blockchain technolo	gies.
 Teaching under-graduate level course on FinTech. 	
 Teaching assistance for graduate level courses on - Alternative Ent Marketing, FinTech and Data Mining. 	repreneurship, Social Media
Goldman Sachs Associate, Quantitative Strategist	June 2011 - Feb 2016 Bengaluru, India
• Hiring, Mentoring and building data science teams across India, S	Singapore and UK.
• Developing Big-Data platform and driving Machine Learning adop	otion.

• Developing risk and unit cost models for operations division (5000+ employees and \$4Bn+ budget).

PROFESSIONAL SERVICE

Reviewer for academic journals handling 3-5 new papers every month across

- Management Science (Impact Factor 4.2)
- Information Systems Review (Impact Factor 5.2)
- Marketing Science (Impact Factor 2.5)
- Management Information Systems Quarterly (Impact Factor 5.4)

Reviewer for academic conferences

- Workshop on Platform Analytics
- International Conference on Information Systems
- Conference on Information Systems and Technology

Member of professional organizations

- USC Marshall School of Business, Initiative on Digital Competition (2021)
- Tepper School of Business, Blockchain Initiative (2018 2020)

Awarded Fellowship or designated as a Fellow at

- AMA-Sheth Foundation Doctoral Consortium Fellow, 2020.
- Ripple Foundation Fellow, 2019-20.
- ISMS Doctoral Consortium Fellow, 2019.

TEACHING

Internet Marketing (Graduate), Spring 2022, Marshall School of Business, USC. Internet Marketing (Graduate), Spring 2023, Marshall School of Business, USC.

- · Class Content: Search and Ad Tech, Algorithms, Bias and Fairness, Blockchains in Marketing.
- · Class Size: 90 (MBA, MS in Marketing and other Marshall graduate programs)

FinTech (Undergraduate), Fall 2018, Tepper School of Business, CMU.

- Class Content: Blockchains, Smart Contracts, ICOs and Machine Learning in Finance.
- · Class Size: 30 (Undergraduate Business Majors at Tepper School of Business)

INVITED TALKS

- "Economics of ML Pricing in the Housing Market". Talk at Fox School of Business, Temple University, AI institute distinguished speakers in the virtual-zoom workshop series. Philadelphia, April 2023 (upcoming).
- "Is (Smart) Technology Really Making Us Dumber? Marketing Analytics Improves the Mental and Managerial Performance of Entrepreneurs". Discussant at Marshall School of Business, USC. Yale China-India Insights Conference. Los Angeles, CA, Oct 2022.
- "Economics of ML Feedback Loops". Talk at Marshall School of Business, USC, Feb 2021.
- "Economics of ML Feedback Loops". Talk at HEC Paris, Jan 2021.
- "Economics of Collusion on Bitcoin". Talk at Stern School of Business, NYU, Nov 2019.
- "Tutorial on Deep Reinforcement Learning". CMU Summer Workshop on ML, Pittsburgh, PA, 2019.
- Tutorial on "Deep Learning in Computer Vision Methods, Interpretation, Causation and Fairness". INFORMS Annual Meeting, Seattle, WA, 2019.

RESEARCH (IN PEER REVIEWED CONFERENCES)

"Does Machine Learning Amplify Pricing Errors in Housing Market? : Economics of ML Feedback Loops". Conference on Artificial Intelligence, Machine Learning, and Business Analytics, December 2022 (Cambridge, MA).

"Unstructured Data, Econometric Models, and Estimation Bias". Conference on Artificial Intelligence, Machine Learning, and Business Analytics, December 2022 (Cambridge, MA).

"Regulating eXplainable AI (XAI) may harm customers". Conference on Artificial Intelligence, Machine Learning, and Business Analytics, December 2022 (Cambridge, MA).

"Unstructured Data, Econometric Models, and Estimation Bias". Virtual Quant Marketing Seminar, November 2022.

"Sell Me the Blackbox! Mandating eXplainable Artificial Intelligence (XAI) May Harm Users". 6th International Conference of Marketing, Strategy Policy, November 2022.

"Why does my Zestimate fluctuate? Algorithmic Pricing and Ad Revenue Incentives". USC Marshall Marketing Department Quant Brown Bag, Oct 2022 (Los Angeles, CA).

"Does Machine Learning Amplify Pricing Errors in Housing Market?". Conference on Information Systems and Technology, October 2022 (Indianapolis, IN).

"Economics of ML Feedback Loops". Marketing Science Conference, June 2022.

"Regulating eXplainable AI (XAI) may harm customers". Marketing Science Conference, June 2022.

"Why Bitcoin will fail to scale?". Tokenomics, Conference on Blockchain Economics, Security and Protocols, December 2021.

"Trend Chasing in Machine Learning Home Prices". USC Marshall Marketing Department Quant Brown Bag, Oct 2021 (Los Angeles, CA).

"Why Bitcoin will fail to scale?". Marketing Science Conference, Rome, Italy, 2019.

"Bitcoin disruption in payments - Winners and Losers". Marketing Science Conference, Rome, Italy, 2019.

"Role of naive agents in Initial Coin Offerings (ICO)". Marketing Science Conference, Rome, Italy, 2019.

"When does beauty pay? A dynamic analysis of Beauty Premium". Marketing Science Conference, Rome, Italy, 2019.

"Economics of collusion on Blockchain". Workshop on Economics of Information Security (WIES), June 2019 (Cambridge, MA).

"Why Bitcoin will fail to scale?". Production and Operations Management Society (POMS) Conference, April 2019 (Minneapolis, MN).

"Economics of collusion on Blockchain". Workshop on Information Systems and Economics (WISE), December 2018 (San Francisco, CA).

"Bitcoin disruption in payments - Winners and Losers". Conference on Information Systems and Technology, October 2018 (Phoenix, AZ). [Best Paper nomination]

"A Dynamic Analysis of Attractiveness Premium". Marketing Science Conference, June 2018 (Philadel-phia, PA).

"When Does Beauty Pay? A Large Scale Image Based Appearance Analysis on Career Transitions". Conference on Information Systems and Technology, October 2017 (Houston, TX). [Best Student Paper]

RESEARCH PUBLICATIONS (IN PEER REVIEWED JOURNALS)

Malik N., Wei M., Appel G., Luo L. "Blockchain Technology for Creative Industry: Ideas, Reflections, and Future Research". International Journal of Research in Marketing (September, 2022).

Malik N., Aseri M., Singh P.V., Srinivasan K. "Why Bitcoin will fail to scale?". Management Science (January, 2022). https://doi.org/10.1287/mnsc.2021.4271.

Malik N., Singh P.V. "Deep Learning in Computer Vision - Methods, Interpretation, Causation and Fairness". Operations Research & Management Science in the Age of Analytics. INFORMS (October, 2019). https://doi.org/10.1287/educ.2019.0201.

RESEARCH - UNDER REVIEW FOR PUBLICATION (AVAILABLE AT OPEN ACCESS REPOSITORIES)

Wei M., Malik N. (2021). "Unstructured Data, Econometric Models, and Estimation Bias". (social science research network abstractid=4113608).

Malik N., Manzoor, E.A. (2020). "Does Machine Learning Amplify Pricing Errors in Housing Market? : Economics of ML Feedback Loops". (social science research network abstractid=3694922).

Malik N., Singh P.V., Srinivasan K. (2017) "When does beauty pay? A dynamic analysis of Beauty Premium". (social science research network abstractid=3208162).

Mohammadi B., Malik N., Srinivasan K., Derdenger T. (2022). "Regulating eXplainable AI (XAI) may harm customers". (arxiv https://arxiv.org/abs/2209.03499)

OPEDS AND RESEARCH CITED IN POPULAR PRESS

Malik N. "Economics of Blockchain Scaling". January 2023. [upcoming]

Rachel Metz. "Zillow's home-buying debacle shows how hard it is to use AI to value real estate". CNN Business, November 2021.

CITATIONS

Google Scholar Citations: 49 (34 in 2022, 9 in 2021, 5 in 2020, 1 in 2019)

Social Science Research Network: 1457 Downloads

AWARDS AND ACHIEVEMENTS

iORB Research Publicity Initiative, USC Marshall, 2022-2023

William W. Cooper Doctoral Dissertation Award, CMU, 2021.

Dipankar and Sharmila Chakravarti Doctoral Fellowship Award 2020.

PNC Presidential Fellowship 2019-20.

Henry J. Gailliot Presidential Fellowship, CMU, 2019-20.

Ripple Foundation Fellowship, 2019-20.

Litzenberger Family Fund Award, CMU 2018.

Best Conference Paper nomination, CIST INFORMS 2018.

Best Student Paper, CIST INFORMS 2017.

William Larimer Mellon Fellowship, CMU 2016-2021.

Best Electrical Engineering Undergraduate Thesis, IIT Delhi 2011.

AIEEE (All India Engineering Entrance Examination) Top 350 Scholarship 2007-2011.

Competitive Exams Scores and Ranks

- GRE Score 333 / 340 (95+ percentile) and TOEFL Score 115/120 (98+ percentile).
- Rank 188 (99.92 percentile) in JEE (Joint Entrance Examination) 2007.
- Rank 252 (99.96 percentile) in AIEEE (All India Engineering Entrance Examination) 2007.
- 1st Rank in K.V. National Mathematics Olympiad 2005.