

NIKHIL MALIK

Ripple Foundation Fellow

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EDUCATION

Carnegie Mellon University

Expected May 2020

Ph.D. in Business Technologies (Minor in Machine Learning)

Carnegie Mellon University

May 2018

M.S. in Industrial Administration

Indian Institute of Technology, Delhi

May 2011

B.Tech. in Electrical Engineering

SELECTED GRADUATE COURSEWORK

Microeconomics, Econometrics, Econometrics, Game Theory, Economics of Emerging Technologies, Cryptography, Machine Learning, Deep Learning, Deep Reinforcement Learning, Text mining with ML, Analytical Models in Marketing, Structural Models in Marketing, Estimating Structural Models.

RESEARCH INTERESTS

Topics: Fin-tech, Blockchain, Initial Coin Offerings (ICO), Machine Learning, Economics of Artificial Intelligence, Algorithm and Human Biases

Methodology: Analytical Models, Structural Models, Machine Learning

PUBLICATIONS

Malik N. and Singh P.V. 2019. "Deep Learning in Computer Vision - Methods, Interpretation, Causation and Fairness". Operations Research & Management Science in the Age of Analytics. INFORMS, 2019. 73-100.

WORKING PAPERS

Malik N., Aseri M., Singh P.V. and Srinivasan K. 2018. "Why Bitcoin will fail to scale?". Under 2nd round of review at Management Science. (ssrn abstractid=3323529)

Malik N., Singh P.V., Srinivasan K. and Lee D. 2017. "A dynamic analysis of Beauty Premium". Revising for 2nd round of review at Marketing Science. (ssrn abstractid=3208162)

- Best Student Paper at CIST INFORMS, Houston, TX, 2017

Malik N., Aseri M., Singh P.V. and Srinivasan K. 2018. "Bitcoin disruption in payments - Winners and Losers".

- Best Conference Paper nomination at CIST INFORMS, Phoenix, AZ, 2018

WORK IN PROGRESS

Malik N., Singh P.V., Mehta N. and Srinivasan K. 2019. “Will predictive algorithms create the next housing price bubble?”.

Malik N., Singh P.V., Mehta N. and Srinivasan K. 2019. “Role of naive agents in peer to peer crowd-funding ICO markets”.

Malik N., Khan U. and Singh, P.V. 2018. “Can Banks survive the next financial crisis? An adversarial deep learning model for bank stress testing”.

CONFERENCE PRESENTATIONS

Malik N. and Singh P.V. “Deep Learning in Computer Vision - Methods, Interpretation, Causation and Fairness”. INFORMS Annual Meeting, Seattle, WA, 2019.

Malik N., Singh P.V., Mehta N. and Srinivasan K. “Role of naive agents in peer to peer crowdfunding ICO markets”. INFORMS Marketing Science Conference, Rome, Italy, 2019.

Malik N., Singh P.V., Srinivasan K. and Lee D. “A dynamic analysis of Beauty Premium”. INFORMS Marketing Science Conference, Rome, Italy, 2019.

Malik N., Aseri M., Singh P.V. and Srinivasan K. “Bitcoin disruption in payments - Winners and Losers”. INFORMS Marketing Science Conference, Rome, Italy, 2019.

Malik N., Aseri M., Singh P.V. and Srinivasan K. “Why Bitcoin will fail to scale?”. INFORMS Marketing Science Conference, Rome, Italy, 2019.

Malik N. and Chaplot D. “Tutorial on Deep Reinforcement Learning”. CMU Summer Workshop on Machine Learning, Pittsburgh, PA, 2019.

Malik N., Aseri M., Singh P.V. and Srinivasan K. “Why Bitcoin will fail to scale?”. Workshop on Economics of Information Security (WIES), Cambridge, MA, 2019.

Malik N., Aseri M., Singh P.V. and Srinivasan K. “Why Bitcoin will fail to scale?”. Workshop on Information Systems and Economics (WISE), San Francisco, CA, 2018.

Malik N., Aseri M., Singh P.V. and Srinivasan K. “Bitcoin disruption in payments - Winners and Losers”. Conference on Information Systems and Technology (CIST), Phoenix, AZ, 2018. [Best Conference Paper nomination]

Malik N., Lee D., Singh P.V. and Srinivasan K. “When does beauty pay?”. INFORMS Marketing Science Conference, Philadelphia, PA, 2018.

Malik N., Lee D., Singh P.V. and Srinivasan K. “When does beauty pay? A large scale image based appearance analysis on career transitions”. Conference on Information Systems and Technology (CIST), Houston, TX, 2017. [Best Student Paper]

AD-HOC REVIEWER

Management Science, Information System Research (ISR), Conference on Information Systems and Technology (CIST), International Conference in Information Systems (ICIS)

TEACHING EXPERIENCE

Instructor

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

Tutorial on Deep RL. CMU Summer Workshop on Machine Learning, Pittsburgh, PA, 2019.

Tutorial on Deep Learning in Computer Vision. INFORMS Annual Meeting, Seattle, WA, 2019.

Teaching Assistant (Tepper School of Business, CMU)

FinTech (MBA) by Prof Param Vir Singh and Prof Bryan Routledge, Spring 2018.

Modern Data Management (Undergraduate) by Prof Zachary Lipton Chase, Spring 2018.

Digital Marketing and Social Media Strategy (MBA) by Prof Param Vir Singh, Fall 2017.

Entrepreneurial Alternatives (MBA) by Prof Leonard Caric, Fall 2016.

WORK EXPERIENCE

Adobe Inc

May 2017 - Aug 2017

Data Science Intern

San Jose, USA

Predictive deep learning modeling for consumer apparel purchase decision using Google Shopping product visuals.

Goldman Sachs

June 2011 - Feb 2016

Quantitative Strategist

Bangalore, India

Machine Learning for discovering regulatory non-compliance and internal cost pools.

Quantitative modeling of credit and funding risk for various operational processes.

Development of in-house data warehouse stack, business intelligence tools and ML platform.

Building data science teams in India, Singapore and UK.

AWARDS

PNC Presidential Fellowship 2019-20.

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

Ripple Foundation Fellow, 2019-20.

ISMS Doctoral Consortium Fellow, 2019.

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.

Best Electrical Engineering Undergraduate Thesis, IIT Delhi 2011.

REFERENCES

Param Vir Singh

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Carnegie Bosch Professor of Business Technologies and Marketing

Tepper School of Business, Carnegie Mellon University

Kannan Srinivasan

kannas@cmu.edu

H.J. Heinz II Professor of Management, Marketing and Business Technologies

Tepper School of Business, Carnegie Mellon University

Yan Huang

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Assistant Professor of Business Technologies; BP Junior Faculty Chair

Tepper School of Business, Carnegie Mellon University