

Emaad Manzoor

CARNEGIE MELLON UNIVERSITY

Curriculum Vitae

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EDUCATION

2016 — 2021*	Carnegie Mellon University, Heinz College	<i>Ph.D. in Information Systems</i>
2015 — 2016 [†]	Stony Brook University	<i>Ph.D. in Computer Science</i>
2013 — 2015	King Abdullah University of Science and Technology	<i>M.S. in Computer Science</i>
2008 — 2012	Birla Institute of Technology and Science – Pilani	<i>B.E. (Hons.) in Computer Science</i>

SELECTED AWARDS

2020	McKinsey & Company PhD Fellowship (\$36,000)
2019	Snap Inc. Research Fellowship, finalist Jane Street Depth First Learning Fellowship, finalist
2018	Marketing Science Institute Research Grant, co-PI (\$10,000)
2016 — 2018	NSF Student Travel Grant for ACM SIGKDD Conferences (\$3,050)

PUBLICATIONS

Google Scholar: <https://scholar.google.com/citations?user=TcMyxM0AAAAJ>

- EMNLP 2020 **Detecting Attackable Sentences in Arguments**
Yohan Jo, Seojin Bang, Emaad Manzoor, Eduard Hovy, Chris Reed
Conference on Empirical Methods in Natural Language Processing, 2020
- WWW 2020 **Expanding Taxonomies with Implicit Edge Semantics**
Emaad Manzoor, Dhananjay Shrouthy, Rui Li, Jure Leskovec
The Web Conference, 2020
Press coverage at [VentureBeat](#) / [Production launch](#) at Pinterest / Patent filed in October, 2019
- KDD 2018 **xStream: Outlier Detection in Feature-Evolving Data Streams**
Emaad Manzoor, Hemank Lamba, Leman Akoglu
ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2018
Assigned reading in the [Data Mining \(Fall '18\)](#) course at York University
- KDD 2017 **RUSH! Targeted Time-limited Coupons via Purchase Forecasts**
Emaad Manzoor, Leman Akoglu
ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2017
- KDD 2016 **Fast Memory-Efficient Anomaly Detection in Streaming Heterogeneous Graphs**
Emaad Manzoor, Sadegh M. Milajerdi, Leman Akoglu
ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2016
Assigned reading in the [Advanced Computer Security \(UIUC, Spring '20\)](#) and [Advanced Data Mining \(University of Michigan, Winter '19\)](#) graduate courses

*Expected, [†]Transferred

RESEARCH IN PROGRESS

- 2020+ **Influence via Ethos: On the Persuasive Power of Reputation in Deliberation Online**
Emaad Manzoor, George H. Chen, Dokyun Lee, Michael D. Smith
Major revision (first round) at Management Science (*Job Market Paper*)
Best paper nominee (e-business cluster), INFORMS Annual Meeting, 2019
Selected talks: ISMS Marketing Science Conference 2020; Statistical Challenges in e-Commerce Research (SCECR) 2020; International Conference on Computational Social Science (IC2S2) 2020; Stanford Conference on Computational Sociology (with discussion) 2020; Conference on Information Systems & Technology (CIST) 2020
- 2020+ **Uncovering Latent Biases in Text: Method and Application to Peer Review**
Emaad Manzoor, Nihar B. Shah
Under review
Selected talks: INFORMS Workshop on Data Science 2020
- 2019+ **Linguistic Determinants of Persuasive Message Elaboration**
Emaad Manzoor, Dokyun Lee, George H. Chen, Alan L. Montgomery
Work in progress
Selected talks: ISMS Marketing Science Conference 2019; Conference on Information Systems and Technology (CIST) 2019; INFORMS Workshop on Data science 2019
- 2018+ **Focused Concept Miner (FCM): Interpretable Deep Learning for Text Exploration**
Dokyun Lee*, Emaad Manzoor*, Zhaoqi Cheng* (*equal contribution)
Under review (first round) at Information Systems Research
Preprint: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3304756

EMPLOYMENT

- Summer 2018 **Pinterest Labs**, San Francisco, Research Intern
Research on hierarchical representation learning. Advised by Rui Li and Jure Leskovec.
- Summer 2017 **Max Planck Institute for Software Systems**, Kaiserslautern, Research Intern
Research on stochastic optimal control. Advised by Manuel-Gomez Rodriguez.
- Summer 2015 **Quantitative Engineering Design**, Remote, Research Intern
Research on streaming random forests. Advised by Jiehua Chen and William Wu.
- Summer 2014 **Oregon State University**, Remote, Google Summer of Code Intern
REST service design and development for remote datacenter machine administration.
- 2012 — 2013 **Yahoo!**, Bangalore, Software Engineer
Distributed streaming NLP system development (Storm, Kafka, HBase).
- Summer 2012 **Tachyon Technologies**, Bangalore, Research Intern
Research on computer-vision. Advised by Ram Prakash Hanumanthappa.
- Fall 2011 **Yahoo!**, Bangalore, Software Engineer Intern
Configuration system development for trending-topic discovery.

TEACHING ASSISTANTSHIPS

2019, 2020	Digital Transformation (with Ari Lightman)
2019, 2020	Basic Mathematics and Probability (with Nathaniel Breg and Maria Caballero)
2017, 2018, 2019	Unstructured Data Analytics (with George H. Chen)
2017, 2018, 2019	Intermediate Database Management (with Jeremy Smith)

SELECTED COURSEWORK

Fall 2020	Seminar in Organizational Behavior (with Brandy L. Aven and Taya R. Cohen)
Spring 2020	Modern Causal Inference (with Edward H. Kennedy)
Spring 2019	Advanced Machine Learning Theory and Methods (with Pradeep Ravikumar)
Fall 2018	Econominig (with Dokyun Lee)
Fall 2018	Convex Optimization (with Aarti Singh and Pradeep Ravikumar)
Fall 2018	Advanced Introduction to Machine Learning (with Nina Balcan)
Spring 2018	Econometric Theory and Methods (with Akshaya Jha)
Spring 2018	Statistical Machine Learning (with Larry Wasserman)
Spring 2017	Introduction to Econometric Theory (with Edson Severnini)
Spring 2017	Advanced Probability Overview (with Jing Chen)
Fall 2016	Microeconomics (with Brian Kovak)
Fall 2016	Intermediate Statistics (with Larry Wasserman)

SERVICE AND OUTREACH

2019, 2020	Reviewer, IEEE Transactions on Knowledge and Data Engineering (TKDE)
2020	Co-organizer, Workshop on Causal Inference & Natural Language Processing
2020	Reviewer, Conference on Information Systems and Technology (CIST)
2020	Reviewer, International Conference on Information Systems (ICIS)
2020	Volunteer, International Conference on Learning Representations (ICLR)
2019	Reviewer, ACM Transactions on Knowledge Discovery from Data (TKDD)
2016 — 2018	Volunteer, ACM Conference on Knowledge Discovery and Data Mining (KDD)

REFERENCES

Michael D. Smith mds@cmu.edu	<i>J. Erik Jonsson Professor of Information Technology and Marketing</i> Heinz College of Information Systems & Public Policy, Carnegie Mellon University
Dokyun Lee dokyun@cmu.edu	<i>Assistant Professor of Business Analytics</i> Tepper School of Business, Carnegie Mellon University
George H. Chen georgechen@cmu.edu	<i>Assistant Professor of Information Systems</i> Heinz College of Information Systems & Public Policy, Carnegie Mellon University