

Emaad Manzoor

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github.com/emaadmanzoor
scholar.google.com/citations?user=TcMyxM0AAAAJ

EDUCATION	Carnegie Mellon University, PA, USA 2016 – 2021* Ph.D., Information Systems (H. John Heinz III College). Advisors: Dokyun Lee, George Chen.
	Stony Brook University, NY, USA 2015 – 2016¹ Ph.D., Computer Science. Advisor: Leman Akoglu.
	King Abdullah University of Science and Technology, Saudi Arabia 2013 – 2015 M.S., Computer Science. Advisor: Panos Kalnis.
	Birla Institute of Technology and Science - Pilani (Goa Campus), India 2008 – 2012 Bachelor of Engineering (Honors), Computer Science.
RESEARCH INTERESTS	Substantive: Persuasion, argumentation, opinion dynamics. Methodological: Causal inference from text, graph mining, hierarchical representation learning.
WORK IN PROGRESS	<ul style="list-style-type: none">• <i>Persuasion via Credibility Signals in Argumentative Dialogue.</i> Emaad Manzoor, George Chen, Dokyun Lee, Michael D. Smith.• <i>Identifying Linguistic Biases in Peer-Review.</i> Emaad Manzoor, Nihar B. Shah.• <i>Focused Concept Miner (FCM): Interpretable Deep Learning for Text Exploration.</i> Dokyun Lee*, Emaad Manzoor*, Zhaoqi Cheng* (*equal contribution). Under second-round review at Marketing Science. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3304756
PUBLICATIONS	<ul style="list-style-type: none">• <i>Expanding Taxonomies with Implicit Edge Semantics.</i> Emaad Manzoor, Dhananjay Shrouthy, Rui Li, Jure Leskovec. WWW 2020 (long paper with oral presentation, top 217/1129 = 19.22%). <i>Press coverage:</i> Venturebeat, Pinterest Engineering Blog https://cmuarborist.github.io/• <i>xSTREAM: Outlier Detection in Feature-Evolving Data Streams.</i> Emaad Manzoor, Hemank Lamba, Leman Akoglu. KDD 2018 (research track with short presentation, top 181/983 = 18.41%). https://cmuxstream.github.io/• <i>RUSH! Targeted Time-limited Coupons via Purchase Forecasts.</i> Emaad Manzoor, Leman Akoglu. KDD 2017 (applied data science track with poster, top 85/396 = 21.47%). https://github.com/emaadmanzoor/rush/• <i>Fast Memory-Efficient Anomaly Detection in Streaming Heterogenous Graphs.</i> Emaad Manzoor, Sadegh M. Milajerdi, Leman Akoglu. KDD 2016 (research track with long presentation, top 70/784 = 8.93%). https://sbustreamspot.github.io/ <i>Assigned course reading in:</i> UIUC Advanced Computer Security (Fall '20) <i>Assigned course reading in:</i> UIUC Advanced Data Mining (Winter '19)

¹Incomplete, transferred.

AWARDS	<ul style="list-style-type: none"> • McKinsey & Co. PhD Fellowship. 2020 • INFORMS e-Business Cluster Best Paper, nominee. 2019 • Jane Street Depth First Learning Fellowship, Semi-finalist. 2019 • Snap Inc. Research Fellowship, Semi-finalist. 2019 • Marketing Science Institute Grant (\$10,000), co-PI (with Zhaoqi Chen and Dokyun Lee). 2018 • CMU GSA/Provost Office Conference Funding Award (\$1,250). 2017, 2018, 2019 • ACM SIGKDD Student Travel Award (\$3,050). 2016, 2017, 2019 • Institute of Advanced Computational Science Young Writer's Award (\$500). 2016
PROFESSIONAL EXPERIENCE	<p>Pinterest Labs, San Francisco. Research Intern. Summer 2018, Spring 2019 Hierarchical representation learning for taxonomy expansion (with Rui Li and Jure Leskovec).</p> <p>Max Planck Institute for Software Systems, Kaiserslautern. Research Intern. Summer 2017 Stochastic optimal control for incentive scheduling (with Manuel Gomez-Rodriguez).</p> <p>Quantitative Engineering Design, San Francisco (remote). Research Intern. Summer 2015 Streaming random-forests for predictive cropland maps (with William Wu and Jiehua Chen).</p> <p>Oregon State University, Corvallis (remote). Google Summer of Code Intern. Summer 2014 REST service design and development for remote datacenter machine administration.</p> <p>Yahoo!, Bangalore. Software Engineer. Jul 2012 – Aug 2013 Distributed streaming NLP system development for trending-topic detection (Storm, Kafka, HBase).</p> <p>Tachyon Technologies, Bangalore. Research Intern. Summer 2012 Computer-vision algorithm design for comic book digitization (with Ram Prakash Hanumanthappa).</p> <p>Yahoo!, Bangalore. Software Engineer Intern. Fall 2011 Configuration system development for trending-topic internationalization.</p> <p>University of Massachusetts, Lowell (remote). Summer of Code Intern. Summer 2011 Debian package building pipeline development on Launchpad.</p>
TEACHING	<p>See http://emaadmanzoor.com/teaching/ for teaching material and student evaluations.</p> <ul style="list-style-type: none"> • 95-722 Digital Transformation (Ari Lightman, CMU) F19 • 46-891 Mining Unstructured Data (co-created with Dokyun Lee, CMU) S19 • 95-865 Unstructured Data Analysis (George Chen, CMU). F17 – F19, S18 – S19 • 95-813 Intermediate Databases (Jeremy Smith, CMU). F17 – F19
SELECTED COURSEWORK	<p>Economics & Social Sciences</p> <ul style="list-style-type: none"> • 90-907: Econometric Theory and Methods (Akshaya Jha, CMU) Spring 2018 • 47-958: Economining (Dokyun Lee, CMU) Fall 2017 • 90-906: Introduction to Econometric Theory (Edson Severnini, CMU) Spring 2017 • 90-908: Microeconomics (Brian Kovak, CMU) Fall 2016 <p>Statistics & Machine Learning</p> <ul style="list-style-type: none"> • 10-716: Advanced Machine Learning (Pradeep Ravikumar, CMU) Spring 2019 • 10-715: Advanced Introduction to Machine Learning (Nina Balcan, CMU) Fall 2018 • 36-725: Convex Optimization (Aarti Singh & Pradeep Ravikumar, CMU) Fall 2018 • 10-702: Statistical Machine Learning (Larry Wasserman, CMU) Spring 2018