

Emaad Ahmed Manzoor

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EDUCATION	<p>Carnegie Mellon University, PA, USA 2016 – 2021* Ph.D., Information Systems (H. John Heinz III College). Advisors: Dokyun Lee, George Chen.</p> <p>Stony Brook University, NY, USA 2015 – 2016¹ Ph.D., Computer Science. Advisor: Leman Akoglu.</p> <p>King Abdullah University of Science and Technology, Saudi Arabia 2013 – 2015 M.S., Computer Science. Advisor: Panos Kalnis. Thesis: Scheduling Broadcasts in a Network of Timelines.</p> <p>Birla Institute of Technology and Science - Pilani (Goa Campus), India 2008 – 2012 Bachelor of Engineering (Honors), Computer Science.</p>
WORK IN PROGRESS	<ul style="list-style-type: none">• <i>Inferring Semantic Hierarchies from Human Curation Behavior.</i> <u>Emaad Manzoor</u>, Dhananjay Shrouthy, Rui Li, Jure Leskovec. To be submitted, 2019.• <i>Focused Concept Miner (FCM): Interpretable Deep Learning for Text Exploration.</i> Dokyun Lee*, <u>Emaad Manzoor</u>*, Zhaoqi Cheng* (*equal contribution). Marketing Science (revise and resubmit). https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3304756
PUBLICATIONS	<ul style="list-style-type: none">• <i>xSTREAM: Outlier Detection in Feature-Evolving Data Streams.</i> <u>Emaad Manzoor</u>, Hemank Lamba, Leman Akoglu. ACM SIGKDD 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> <u>Emaad Manzoor</u>, Leman Akoglu. ACM SIGKDD 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> <u>Emaad Manzoor</u>, Sadegh M. Milajerdi, Leman Akoglu. ACM SIGKDD 2016 (research track with long presentation, top 70/784 = 8.93%). https://sbustreamspot.github.io/
PATENTS	<ul style="list-style-type: none">• <i>Scheduling Broadcasts in a Network of Timelines.</i> <u>Emaad Ahmed Manzoor</u>, Haewoon Kwak, Panos Kalnis. Unpublished manuscript (https://arxiv.org/abs/1610.06052), 2015. Patent filed in February, 2015 (https://patents.google.com/patent/W02016132332A1).
AWARDS	<ul style="list-style-type: none">• 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• ACM SIGKDD Student Travel Award (\$3,050). 2016, 2017, 2018• Institute of Advanced Computational Science Young Writer's Award (\$500). 2016• Stony Brook University Special CS Department Chair Fellowship (\$8,000). 2015

¹Incomplete, transferred.

PROFESSIONAL EXPERIENCE	Pinterest Labs , San Francisco. Research Intern. Summer 2018, Spring 2019 Research on semantic hierarchies and graph embeddings. Advised by Rui Li and Jure Leskovec.
	Max Planck Institute for Software Systems , Kaiserslautern. Research Intern. Summer 2017 Research on stochastic optimal control. Advised by Manuel Gomez-Rodriguez.
	Quantitative Engineering Design , San Francisco (remote). Research Intern. Summer 2015 Research and development on streaming machine-learning. Advised by William Wu and Jiehua Chen.
	Oregon State University , Corvallis (remote). Google Summer of Code Intern. Summer 2014 Designed and developed a REST service to enable remote datacenter machine administration.
	Yahoo! , Bangalore. Software Engineer. Jul 2012 – Aug 2013 Developed a distributed streaming NLP system for trending-topic detection (Storm, Kafka, HBase).
TEACHING	Tachyon Technologies , Bangalore. Research Intern. Summer 2012 Designed algorithms for automatic comic book digitization. Advised by Ram Prakash Hanumanthappa.
	Yahoo! , Bangalore. Software Engineer Intern. Fall 2011 Designed and developed a configuration system for trending-topic internationalization.
	University of Massachusetts , Lowell (remote). Summer of Code Intern. Summer 2011 Designed and developed a Debian package building and maintenance pipeline on Launchpad.
	See http://www.eyeshalfclosed.com/teaching/ for teaching material and student evaluations.
	<ul style="list-style-type: none"> 46-891 Mining Unstructured Data (co-created with Dokyun Lee, CMU) S19 95-865/94-775 Unstructured Data Analysis (George Chen, CMU). F17, S18, F18, S19 95-813 Intermediate Databases (Jeremy Smith, CMU). F17, F18
SELECTED COURSEWORK	All completed courses listed were awarded grades A- or higher. Spring 2019 courses are ongoing.
	Economics & Social Sciences
	<ul style="list-style-type: none"> 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
	Statistics & Machine Learning
	<ul style="list-style-type: none"> 10-716: Advanced Machine Learning (Pradeep Ravikumar, CMU) Spring 2019 36-705: Intermediate Statistics (Larry Wasserman, CMU) Fall 2016
PROGRAMMING LANGUAGES	Computer Science
	<ul style="list-style-type: none"> CSE-506: Operating Systems (Michael Ferdman, Stony Brook University) Fall 2015 CSE-537: Artificial Intelligence (I.V. Ramakrishnan, Stony Brook University) Fall 2015 AMCS-241: Probability and Random Processes (Mohammed-Slim Alouini, KAUST) Fall 2014 CS-390: Computational Complexity (Antoine Vigneron, KAUST) Fall 2014 CS-341: Advanced Topics in Data Management (Panos Kalnis, KAUST) Spring 2014 CS-229: Machine Learning (Xiangliang Zhang, KAUST) Spring 2014 CS-220: Data Analytics (Xin Gao, KAUST) Fall 2013
	• Analysis: Python (preferred)
	• Performance: C++ (preferred), Java (for distributed systems)