

Emaad Ahmed Manzoor

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- 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.
Thesis: Scheduling Broadcasts in a Network of Timelines.
- Birla Institute of Technology and Science - Pilani (Goa Campus), India** **2008 – 2012**
Bachelor of Engineering (Honors), Computer Science.
- WORK IN PROGRESS**
- *Inferring Semantic Hierarchies from Human Curation Behavior.*
[Emaad Manzoor](#), Dhananjay Shrouthy, Rui Li, Jure Leskovec.
To be submitted, 2019.
 - *Focused Concept Miner (FCM): Interpretable Deep Learning for Text Exploration.*
Dokyun Lee*, [Emaad Manzoor*](#), Zhaoqi Cheng* (*equal contribution).
Marketing Science (revise and resubmit).
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3304756
- PUBLICATIONS**
- *xSTREAM: Outlier Detection in Feature-Evolving Data Streams.*
[Emaad Manzoor](#), Hemank Lamba, Leman Akoglu.
ACM SIGKDD 2018 (research track with short presentation, top 181/983 = 18.41%).
<https://cmuxstream.github.io/>
 - *RUSH! Targeted Time-limited Coupons via Purchase Forecasts.*
[Emaad Manzoor](#), Leman Akoglu.
ACM SIGKDD 2017 (applied data science track with poster, top 85/396 = 21.47%).
<https://github.com/emaadmanzoor/rush/>
 - *Fast Memory-Efficient Anomaly Detection in Streaming Heterogenous Graphs.*
[Emaad Manzoor](#), Sadegh M. Milajerdi, Leman Akoglu.
ACM SIGKDD 2016 (research track with long presentation, top 70/784 = 8.93%).
<https://sbustreamspot.github.io/>
- PATENTS**
- *Scheduling Broadcasts in a Network of Timelines.*
[Emaad Ahmed Manzoor](#), 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Unpublished manuscript (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**
- Snap Inc. Research Fellowship Semi-finalist. **2019**
 - Marketing Science Institute Grant, 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**
 - Worldwide Top 100 (of 1720 teams), IEEE Xtreme 8.0 Programming Competition. **2015**

¹Incomplete, transferred.

PROFESSIONAL EXPERIENCE	<p>Pinterest Labs, San Francisco. Research Intern. Summer 2018 Research on semantic hierarchies and graph embeddings. Advised by Rui Li and Jure Leskovec.</p> <p>Max Planck Institute for Software Systems, Kaiserslautern. Research Intern. Summer 2017 Research on stochastic optimal control. Advised by Manuel Gomez-Rodriguez.</p> <p>Quantitative Engineering Design, San Francisco (remote). Research Intern. Summer 2015 Research and development on streaming machine-learning. Advised by William Wu and Jiehua Chen.</p> <p>Oregon State University, Corvallis (remote). Google Summer of Code Intern. Summer 2014 Designed and developed a REST service to enable remote datacenter machine administration.</p> <p>Yahoo!, Bangalore. Software Engineer. Jul 2012 – Aug 2013 Developed a distributed streaming NLP system for trending-topic detection (Storm, Kafka, HBase).</p> <p>Tachyon Technologies, Bangalore. Research Intern. Summer 2012 Designed algorithms for automatic comic book digitization. Advised by Ram Prakash Hanumanthappa.</p> <p>Yahoo!, Bangalore. Software Engineer Intern. Fall 2011 Designed and developed a configuration system for trending-topic internationalization.</p> <p>University of Massachusetts, Lowell (remote). Summer of Code Intern. Summer 2011 Designed and developed a Debian package building and maintenance pipeline on Launchpad.</p>
TEACHING	<p>See http://www.eyeshalfclosed.com/teaching/ for teaching material and student evaluations.</p> <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	<p>All completed courses listed were awarded grades A- or higher. Spring 2019 courses are ongoing.</p> <p>Economics & Social Sciences</p> <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 <p>Statistics & Machine Learning</p> <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 <p>Computer Science</p> <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
PROGRAMMING LANGUAGES	<ul style="list-style-type: none"> • Analysis: Python (preferred) • Performance: C++ (preferred), Java (for distributed systems)