J David Smith

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Education

(In Progress) Ph.D. in Computer Science, University of Florida
Expected Graduation: May 2020

Bachelor of Science in Computer Science & Math, University of Kentucky
Graduated summa cum laude in May 2015

Publications

Conference Proceedings

J David Smith, My T. Thai. "Measuring Edge Sparsity on Large Social Networks" *Under review* for the Proceedings of ICWSM 2020.

Lan N. Nguyen, **J David Smith**, My T. Thai. "Vulnerability Assessment of Social Smart Grid: An Algorithmic Approach" to appear in the Proceedings of IEEE GLOBECOM 2019.

Alan Kuhnle, **J David Smith**, Victoria Crawford, My T. Thai. "Fast Maximization of Non-Submodular, Monotonic Functions on the Integer Lattice" in the Proceedings of ICML 2018.

J David Smith, Alan Kuhnle, My T. Thai. "An Approximately Optimal Bot for Non-Submodular Social Reconnaissance" in the Proceedings of HyperText 2018.

Lan Nguyen, **J David Smith**, Jungmin Kang, My T. Thai. "Optimal Auditing on Smart-Grid Networks" in the Proceedings of ICC 2018.

Xiang Li, **J David Smith**, My T. Thai. "Adaptive Crawling with Multiple Bots: A Matroid Intersection Approach" in the Proceedings of INFOCOM 2018.

Xiang Li, **J David Smith**, My T. Thai. "Adaptive Reconnaissance Attacks with Near-Optimal Parallel Batching" in the Proceedings of ICDCS 2017.

Xiang Li, **J David Smith**, Thang Dinh, My T. Thai. "Why approximate when you can get the exact? Optimal Targeted Viral Marketing at Scale." in the Proceedings of INFOCOM 2017.

Xiang Li, **J David Smith**, Thang Dinh, My T. Thai. "Privacy Issues in Light of Reconnaissance Attacks with Incomplete Information." in the Proceedings of Web Intelligence 2016.

Journal Articles

J David Smith, Jun Pei, Xibao Liu, Thang N. Dinh, My T. Thai. "Cyber-Epidemics in Billion-Scale Networks: Optimal Interdiction via Sparse Edge Cuts" *Under review* for Management Science (2020).

J David Smith, My T. Thai. "Supporting a Storm: The Impact of Community on GamerGate's Lifespan" in the IEEE Transactions on Network Science and Engineering (2019).

Lan N. Nguyen, **J. David Smith**, Jinsung Bae, Jungmin Kang, Jungtaek Seo, My T. Thai. "Auditing on Smart-Grid with Dynamic Traffic Flows: An Algorithmic Approach" in the IEEE Transactions on Smart Grid (2019).

Xiang Li, **J David Smith**, Thang N. Dinh, My T. Thai. "TipTop: Almost Exact Solutions for Influence Maximization in Billion-Scale Networks" in the IEEE/ACM Transactions on Networking (2019).

Xiang Li & **J David Smith**, Tianyi Pan, Thang N. Dinh, My Thai. "Quantifying Privacy Vulnerability to Socialbot Attacks: An Adaptive Non-submodular Model" in the IEEE Transactions on Emerging Topics in Computing (2018).

Alan Kuhnle, Xiang Li, **J David Smith**, My T. Thai. "Online Set Multicover Algorithms for Dynamic D2D Communications" in the Journal of Combinatorial Optimization (2017).

Teaching

Primary Instructor

Summer 2019. *Programming Using C*

Teaching Assistant

Fall 2019. *Machine Learning*

Fall 2019. *Distributed Multimedia Systems* (Grading only)

Spring 2019. *Analysis of Algorithms*

Spring 2016. *Operating Systems*

Fall 2015. *Introduction to Programming II*

Awards

2017. Honorable Mention, NSF Graduate Research Fellowship.

2015. Recipient, University of Florida Graduate School Fellowship.

Professional Service

Conference Organization

Web Chair, CSoNet 2018.

Other Service

Organizer, Lab Group Seminar series. 2017-2019.

Review Assistant, NSF Fellowship Preparation course. 2017-2019.

Employment

PhD Student, University of Florida.
August 2015–Present

Software Engineering Intern (AppScan Source), IBM.
May 2015–August 2015

Undergraduate Research Assistant, University of Kentucky.
May 2013–May 2014, August 2014–May 2015

ExtremeBlue Technical Intern, IBM.
May 2014–August 2014

Tutor, University of Kentucky.
January 2014–April 2014, August 2014–November 2014