

Ashish Vulimiri
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Research Interests

Networked and distributed systems, with a focus on Big Data analytics, and low-latency networking within data centers and in the Internet

Education

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| Aug 2009 - May 2015 (expected) | University of Illinois at Urbana-Champaign
Ph.D. in Computer Science
Advisor: Prof. P. Brighten Godfrey |
| Aug 2005 - May 2009 | Indian Institute of Technology at Kharagpur
B.Tech.(Honours) in Computer Science and Engineering
Thesis title: Misbehavior Detection in Vehicular Ad Hoc Networks |

Publications

- Ashish Vulimiri, Carlo Curino, Brighten Godfrey, Thomas Jungblut, Jitu Padhye, George Varghese, “Global analytics in the face of bandwidth and regulatory constraints”, *USENIX NSDI 2015*
- Ashish Vulimiri, Carlo Curino, Brighten Godfrey, Konstantinos Karanasos, George Varghese, “WANalytics: Analytics for a geo-distributed data-intensive world”, *ACM CIDR 2015*
- Ashish Vulimiri, Brighten Godfrey, Radhika Mittal, Justine Sherry, Sylvia Ratnasamy, Scott Shenker, “Low latency via redundancy”, *ACM CoNEXT 2013*
- Ashish Vulimiri, Oliver Michel, Brighten Godfrey, Scott Shenker, “More is less: Reducing latency via redundancy”, *ACM HotNets 2012*
- Ashish Vulimiri, Gul A. Agha, Brighten Godfrey, Karthik Lakshminarayanan, “How well can congestion pricing neutralize denial-of-service attacks?”, *ACM SIGMETRICS 2012*
- Anjan Sarkar, Ashish Vulimiri, Suman Paul, Mohammed J. Iqbal, Avishek Banerjee, Rahul Chatterjee, Shibendu S. Ray, “Unsupervised and supervised classification of hyperspectral image data using projection pursuit and Markov random field segmentation”, *International Journal of Remote Sensing*, Vol. 33 Issue 18, 2012
- Ashish Vulimiri, Arobinda Gupta, Pramit Roy, Skanda N. Muthaiah, Arzad A. Kherani, “Application of secondary information for misbehavior detection in VANETs”, *IFIP Networking 2010*
- Anjan Sarkar, Ashish Vulimiri, Shantanu Bose, Suman Paul, Shibendu S. Ray, “Unsupervised hyperspectral image analysis with projection pursuit and MRF segmentation approach”, in *2008 International Conference on Artificial Intelligence and Pattern Recognition (AIPR-08)*

Talks and Posters

- “Reducing latency via redundancy”: Talk at the 15th GENI Engineering Conference (GEC15, Aug 2012)
- “Adaptive routing with end-to-end feedback”
 - Talk + demo at GEC9 (Nov 2010)
 - Poster at GEC8 (Jul 2010)

Employment

2009 – present	Research Assistant, Department of Computer Science, UIUC
Summer 2014	Intern, Microsoft CISL, Silicon Valley
Summer 2013	Intern, Microsoft Research, Silicon Valley
Summer 2011	Intern, Microsoft Research, Cambridge
Summer 2008	Intern, Microsoft Research, Redmond
May 2007 – Aug 2008	Software Engineer (part-time), Minekey Inc.

Teaching

Fall 2012	Teaching Assistant, Department of Computer Science, UIUC Fundamental Algorithms (CS 473)
Spring 2012	Teaching Assistant, Department of Computer Science, UIUC Undergraduate Research Laboratory (CS 498LA)

Professional Activities

- Reviewer for: ACM CCR 2014, IEEE Network 2014, ACM CCR 2013, IEEE SASO 2012, ACM SPAA 2012
- Advised undergraduate student Zitian Liu on work that led to his undergraduate thesis
- Advised seven undergraduate students on semester-long research projects in Spring 2012, as the TA for CS 498LA (Undergraduate Research Laboratory)

References

- **Prof. P. Brighten Godfrey**
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- **Dr. Carlo Curino**
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Microsoft CISL, Silicon Valley
ccurino@microsoft.com
- **Dr. George Varghese**
Principal Researcher
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