

Utkarsh Upadhyay
Ph.D. candidate at MPI-SWS

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Research Interest

Developing large scale data-driven models and methods for understanding, predicting and improving the creation, consumption and dissemination of information and knowledge on real-world networks.

Education

Jan '15 – present 2nd year Ph.D. Candidate at MPI-SWS, supervised by Dr. Manuel Gomez Rodriguez
Sept '09 – Feb '12 M.S. in Computer Science at EPFL, Switzerland, GPA: **5.7/6**
Aug '05 – May '09 B.Tech. in Electrical Eng. at Indian Institute of Technology, Kanpur; CPI: **9.5/10**

Work

May '15 – present Technical advisor for SpeaQWith.Me in Saarbrücken, Germany
Apr '12 – Dec '14 Data analytics, visualisation and web-client developer at Better AG, Zürich, Switzerland
Aug '10 – Feb '11 Internship at CCIL-NEC, Japan on *Information diffusion on Twitter*
May '08 – July '08 Internship at Microsoft Research, Redmond on *RoboCopy* replacement, *RoboClone*

Academic Honors

2016 Travel award for attending KDD '16
2012 Awarded *Prix ECLA Informatique* for highest GPA in Computer Science MS at EPFL
2009-10 Awarded the Academic Excellence scholarship for studying at EPFL
2009 Silver medal at the programming competition ACM-SWERC '09
2005-09 Recipient of the Aditya Birla Scholarship (Given to 10 students all over India)
2005-06 Recipient of the Academic Excellence Award at IITK
2005 Secured 108th rank in Joint Entrance Examination for IITs (Percentile: 99.97%)

Publications

- **U. Upadhyay**, I. Valera, M. Gomez-Rodriguez. *Uncovering the Dynamics of Crowdlearning and the Value of Knowledge*. ACM International Conference on Web Search and Data Mining (WSDM) 2017
- A. Zarezade, **U. Upadhyay**, H. Rabiee, M. Gomez-Rodriguez. *RedQueen: An Online Algorithm for Smart Broadcasting in Social Networks*. ACM International Conference on Web Search and Data Mining (WSDM) 2017
- S. L. Blond, C. Gilbert, **U. Upadhyay**, M. Gomez-Rodriguez, D. Choffnes. *A Broad View of the Ecosystem of Socially Engineered Exploit Documents*. Network and Distributed System Security symp. (NDSS) 2017
- **U. Upadhyay**, I. Valera, M. Gomez-Rodriguez. *On Crowdlearning: How do People Learn in the Wild?* Workshop on Machine Learning for Education in Conference on Neural Information Processing Systems (NIPS) 2016
- N. Du, H. Dai, R. Trivedi, **U. Upadhyay**, M. Gomez-Rodriguez, L. Song. *Recurrent Temporal Point Processes: Embedding Event History to Vector*, ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2016

- R. Khalili, N. Gast, M. Popovic, **U. Upadhyay**, J.-Y. Le Boudec. *MPTCP is not Pareto-optimal: Performance issues and a possible solution*. **Best Paper Award**, ACM SIGCOMM International Conference on emerging Networking Experiments and Technologies (CoNEXT) 2012
- **U. Upadhyay**. *Reliable communication and control for the Smart Grid*, MS Thesis, EPFL 2012
- G. Mermoud, M. Mastrangeli, **U. Upadhyay**, A. Martinoli. *Real-Time Automated Modeling and Control of Self-Assembling Systems*. IEEE International Conference on Robotics and Automation (ICRA) 2012
- **U. Upadhyay**, N. Yoshinaga, S. Itaya, R. Tanaka, T. Konishi, S. Doi, K. Yamada, P. Davis. *Evaluation of Participants in Group-discussions on Twitter*. 8th Applications of Social Network Analysis (ASNA) 2011
- G. Mermoud, **U. Upadhyay**, W. C. Evans, A. Martinoli. *Top-Down vs Bottom-Up Model-Based Methodologies for Distributed Control: A Comparative Experimental Study*, International Symposium on Experimental Robotics (ISER) 2010
- R. Arora, **U. Upadhyay**, R. Tulshyan, K. Deb, J. Dutta. *A Parallel Randomized Algorithm for Solving Large Convex Minimax Problem*. Conference on Simulated Evolution and Learning (SEAL) 2010. Appears in LNCS, Springer, Vol. 6475

Technical skills

Programming	Python, TypeScript, JavaScript, R, C++, C, Java, Haskell, Ocaml
OSS Contributor	scipy, scikit-learn, IPython, keras, meteor, vimium, Semantic-UI, @first_tmrs_only
Languages spoken	English (fluent), Hindi (native), German (beginner)

Interests & activities

- Prizes in puzzle solving and programming competitions:
 - Won Startup Weekend Saarbrücken in May '15 and co-founded [SpeaQWith.Me](#)
 - Silver medal at Swiss national *HC²* '10 programming competition at EPFL
 - Silver medal at ACM-SWERC '09 programming competition at Madrid, Spain
 - 2nd place twice in Chaos programming contest (Techkriti '06 and '07)
 - 2nd place in 99 word story writing competition in Alfaaz '08, the literary festival
 - 1st place in Electronic Circuit Design Competition, Techkriti '06
- Positions of responsibility held:
 - Program Committee for NIPS 2016
 - Co-organized Machine Learning Summer School 2016 in Cádiz, Spain
 - Coordinator of SciMaTeX, the pure science events, and TesseractT, the online puzzle solving competition in Techkriti (technical festival) '08
 - Secretary for Electronics club and English Literary Society events in Antragni (cultural festival) '07
 - A problem setter for International Online Programming Competition, conducted in Techkriti '08
- Teaching activity:
 - Taught a tutorial on Point Processes in Machine Learning Summer School 2016 in Cádiz, Spain
 - Teaching assistant for the seminar course on Social and Information Networks at TU-KL, 2016
- Reviewer for:
 - ACM International Conference on Web Search and Data Mining (WSDM) 2016, 2017
 - Conference on Neural Information Processing Systems (NIPS) 2015, 2016
 - International Joint Conference on Artificial Intelligence (IJCAI) 2016
 - ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2016
 - SIAM International conference on Data Mining (SDM) 2016
 - World Wide Web conference (WWW) 2016
 - Artificial Intelligence and Statistics conference (AISTATS) 2016
 - AAAI Conference on Artificial Intelligence 2016
 - Frontiers in Robotics and AI Journal, section Computational Intelligence, 2015
 - Conference for Information and Knowledge Management (CIKM) 2015