Utkarsh Upadhyay Ph.D. candidate at MPI-SWS

MPI-SWS, Paul Ehrlich straße G-26, 67663 Kaiserslautern.

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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 – $present$	2^{nd} 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 108^{th} 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 Analysi (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 CPython, scipy, scikit-learn, cvxpy, IPython, meteor, vimium, Semantic-UI,

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Languages spoken English (fluent), Hindi (native), German (beginner)

Interests & activities

- Prizes in puzzle solving and programming competitions:
 - Won Startup Weekend Saarbrüken in May '15 and co-founded SpeaQWith.Me
 - Silver medal at Swiss national HC^2 '10 programming competition at EPFL
 - Silver medal at ACM-SWERC '09 programming competition at Madrid, Spain
 - $-\ 2^{nd}$ 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 Càdiz, Spain
 - Coordinator of SciMaT_EX, the pure science events, and TesseracT, 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 Càdiz, Spain
 - Taught a tutorial on Network Analysis in Machine Learning Summer School 2017 in Tübingen, Germany
 - 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, 2017
 - 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