

Swapnil Mishra

CONTACT INFORMATION

Imperial College London
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RESEARCH INTERESTS

Modeling and Predicting evolution of diseases, social media: epidemiology, infectious diseases, geo-statistics, online networks, stochastic processes, machine learning, time-series prediction.

EDUCATION

The Australian National University, Canberra, AUS

Ph.D., Research School of Computer Science, 2015-2019

- Thesis: *Linking Models for Collective Attention in Social Media*
- Advisors: Dr. Lexing Xie and Dr. Marian-Andrei Rizoio

Master of Computing (First class Hons.), Research School of Computer Science, 2012-2012

- Topic: *Implementation and Experiments with Novel Parallel and Bursty Non-parametric Topic Models*
- Advisor: Professor Wray Buntine

Maharashtra Institute of Technology, Pune, India

B.E , Computer Engineering, 2005-2009

- Prof.Savita Kulkarni

PUBLICATIONS

- [1] Seth Flaxman*, **Swapnil Mishra***, Axel Gandy*, H. Juliette T. Unwin, Thomas A. Melan, Helen Coupland, Charles Whittaker, Harrison Zhu, Tresnia Berah, Jeffrey W. Eaton, Mélodie Monod, Imperial College COVID-19 Response Team, Azra C. Ghani, Christl A. Donnelly, Steven M. Riley, Michaela A. C. Vollmer, Neil M. Ferguson, Lucy C. Okell, Samir Bhatt* "Estimating the effects of non-pharmaceutical interventions on COVID-19 in Europe.." *Nature*, 2020.
- [2] Lucy C Okell, Robert Verity, Oliver J Watson, **Swapnil Mishra**, Patrick Walker, Charlie Whittaker, Aris Katzourakis, Christl A Donnelly, Steven Riley, Azra C Ghani, Axel Gandy, Seth Flaxman, Neil M Ferguson, Samir Bhatt a "Have deaths from COVID-19 in Europe plateaued due to herd immunity?." *The Lancet*, 2020.
- [3] **Swapnil Mishra** "Linking Models for Collective Attention in Social Media." *PhD Thesis, Canberra, AUS, 2019*.
- [4] **Swapnil Mishra** "Bridging Models for Popularity Prediction on Social Media." *In ACM International Conference on Web Search and Data Mining (WSDM '19), Melbourne, AUS, 2019*.
- [5] **S Mishra**, MA Rizoio, L Xie "Modeling Popularity in Asynchronous Social Media Streams with Recurrent Networks." *In International AAAI Conference on Web and Social Media (ICWSM '18), Stanford, CA, USA, 2018*.
- [6] MA Rizoio, **S Mishra**, Q Kong, M Carman, L Xie "SIR-Hawkes: on the Relationship Between Epidemic Models and Hawkes Point Processes." *Proceedings of the 27th International Conference on World Wide Web 2018, WWW'18, Lyon*.
- [7] MA Rizoio, Y Lee, **S Mishra**, L Xie "A Tutorial on Hawkes Processes for Events in Social Media." *Book Chapter, Research Frontier of Multimedia, Morgan & Claypool*.

- [8] **S Mishra**, MA Rizioiu, L Xie “Feature driven and point process approaches for popularity prediction." *Proceedings of the 25th ACM International on Conference on Information and Knowledge Management, CIKM'16, Indianapolis.*
- [9] W Buntine.,**S Mishra.** “Experiments with non-parametric topic models." *Proceedings of the 20th ACM SIGKDD international conference on Knowledge discovery and data mining, KDD'14, NY.*
- [10] W Buntine.,**S Mishra.** “Developing Topic Models for Information Retrieval." *NIPS 2013 Topic modelling workshop, Lake Tahoe, Nevada US.*

AWARDS

ICWSM Student Travel Award (2018)
 ANU Vice Chancellor Travel Grant (2018)
 CIKM Student Travel Grant (2016)
 KDD Student Travel Grant (2014)
 ABU Robocon Misumi Sponsors Award
 ABU Robocon Mabuchi Motor Award

WORK EXPERIENCE

Research Assistant Research School of Computer Science, Australian National University Supervisor: Dr. Lexing Xie	Feb 2015 to present
Research Assistant Optimisation Research Group, NICTA(Data61) Supervisors: Dr. Lexing Xie	Jul 2014 to Nov 2014
Research Assistant Machine Learning Research Group, Australian National University Supervisors: Prof. Wray Buntine	Nov 2012 to Jun 2014
System Engineer Decision Science, Infosys Ltd, Bangalore Client: Bank of America	Jul 2009 to Jul 2011

TEACHING EXPERIENCE

Co-Lecturer, 2018.7-2018.11, 2017.7-2017.11
 Australian National University, Canberra, AUS,
 Introduction to Programming for Data Scientists, COMP2420/6420, Semester 2.

Co-Developer and Co-Lecturer, 2018.2-2018.7
 Australian National University, Canberra, AUS,
 Introduction to Data Management, Analysis and Security, COMP2420/6420, Semester 1.

Teaching Assistant, 2017.7-2017.11, 2016.7-2016.11, 2014.7-2014.11, 2013.7-2013.11
 Australian National University, Canberra, AUS,
 Document Analysis, COMP4650/6490, Semester 2.

REFERENCES

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The Australian National University

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