

# Shubhanshu Mishra

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## EDUCATION

**University of Illinois at Urbana-Champaign**, Urbana-Champaign, Illinois, USA

Doctor of Philosophy (Ph.D.) in School of Information Sciences Aug 2013 –

Advisors: Jana Diesner & Vetle Torvik

Working on thesis titled: *Information extraction from digital social trace data: applications in social media and scholarly data analysis*

Research areas: Data Mining, Social Network Analysis, Machine Learning

Cumulative GPA: 3.86 / 4.0

**Indian Institute of Technology**, Kharagpur, India

Bachelor of Science (B.S.) in Mathematics and Computing Jul 2007 – Jul 2010

Master of Science (M.S.) in Mathematics and Computing Jul 2010 – May 2012

Graduated with College Honors.

Cumulative GPA: 7.29 / 10.0

**Coursera**

Oct 2012 –

*Courses:* Machine Learning, Social Network Analysis, Social and Economic Networks, Introduction to Data Science, Model Thinking

## RESEARCH PROJECTS

**School of Information Sciences**, University of Illinois at Urbana-Champaign

Research Assistant

*Multitask deep learning for improving information extraction from social media data* Aug 2017 –  
Building open source tool for supporting various information extraction tasks from social media.

*Automatic taxonomy construction for computer science papers and application to studying scholarly careers in South Korea* Aug 2017 –

Funded by Korean Institute of Science and Technology Information

*Profiling authors and articles based on novelty, expertise and self-citation in PubMed* Jan 2014 –  
[abel.lis.illinois.edu/legolas](http://abel.lis.illinois.edu/legolas), [abel.lis.illinois.edu/gimli](http://abel.lis.illinois.edu/gimli)

*ConText - Tool for extracting and analyzing network data from text* May 2014 –  
[context.ischool.illinois.edu](http://context.ischool.illinois.edu)

*Entity Extractor using CRF and Deep Learning* May 2014 –  
[github.com/napsternxg/TwitterNER](https://github.com/napsternxg/TwitterNER)

*SAIL - Sentiment Analysis and Incremental Learning* May 2014 – Aug 2015  
[github.com/uiuc-ischool-scanr/SAIL](https://github.com/uiuc-ischool-scanr/SAIL)

*SentiNets* 2013 – 2014  
Identification of enthusiastic supporters of social causes using text and network analysis.

**Department of Mathematics**, Indian institute of Technology, Kharagpur

*Master Thesis: Analysis of Social Media Data to determine Positive and Negative Influential Nodes in the Network* Jul 2011 – May 2012

Supervisors: Dr. Gloria Ng (NUS, Singapore) & Dr. Pawan Kumar

**Institute of Systems Science**, National University of Singapore

Research Assistant

*Tagging Singapore - A cloud based system using mash-up of dynamic data and online geographical maps for information co-creation* May 2009 – Jul 2009

Supervisors: Dr. Gloria Ng

The work was incorporated as a workshop exercise in the course on Service Innovation [SG5228].

<b>PERSONAL PROJECTS</b>	<i>Deep Sequence Classification</i>	Jan 2016
	A deep learning based sequence classification model for text data. It uses a combination of word embeddings and convolution features over characters of each token. It is jointly trained to predict the boundary and category classes per token. <a href="https://github.com/napsternxg/DeepSequenceClassification">https://github.com/napsternxg/DeepSequenceClassification</a>	
	<i>Flavor savor</i>	Feb 2015
	An online map based interface for suggesting nearby restaurants based on flavor popularity and writing reviews using hashtags. <a href="https://github.com/napsternxg/FlavorSharer">https://github.com/napsternxg/FlavorSharer</a>	
<b>PEER REVIEWED PUBLICATIONS</b>	<i>Facebook Group Visualizer</i>	Oct 2014
	A tool for temporal visualization of Facebook group time-lines with focus on identifying author, post and comment networks. <a href="http://shubhanshu.com/FacebookGroupVisual/index.html">http://shubhanshu.com/FacebookGroupVisual/index.html</a>	
	<i>ReadLater</i>	2013
	A Google Chrome extension for storing unread pages for later viewing. Uses Google Chrome synchronized storage. 4 star rating and 8,000+ users on chrome store. <a href="https://github.com/napsternxg/ReadLater">https://github.com/napsternxg/ReadLater</a>	
<b>PEER REVIEWED PUBLICATIONS</b>	Addawood A, Rezapour R, <u>Mishra S</u> , Schneider J, and Diesner J. “Developing an Information Source Lexicon” in <i>NIPS Workshop on Prioritising Online Content</i> Dec 2017	
	Collier DA, <u>Mishra S</u> , Houston DA, Hensley BO, and Hartlep ND. “Americans ‘support’ the Idea of Tuition-Free College: An Exploration of Sentiment and Political Identity Signals Otherwise.” in <i>Journal of Further and Higher Education</i> . Sep 2017	
	<u>Mishra S</u> and Diesner J, “Semi-supervised Named Entity Recognition in noisy-text”, in <i>2nd Workshop on Noisy User-generated Text (W-NUT) at COLING 2016</i> . Dec 2016	
	<u>Mishra S</u> and Torvik VI, “Quantifying Conceptual Novelty in the Biomedical Literature”, in <i>D-Lib Magazine</i> (also presented at WoSP workshop, JCDL 2016). Sep 2016	
	<u>Mishra S</u> , Diesner J, Byrne J, and Surbeck E, “Sentiment Analysis with Incremental Human-in-the-Loop Learning and Lexical Resource Customization”, in <i>ACM Hypertext</i> , Cyprus, Turkey. 2015	
	<u>Mishra S</u> , Phelps K, Agarwal S, Picco J, Guo J, Diesner J, “Enthusiasm and Support: Alternative Sentiment Classification for Social Movements on Social Media”, in <i>ACM Web Science</i> , Blomington, IN. 2014	
	Diesner J, Aleyasen A, <u>Mishra S</u> , Schecter A, Contractor N, “Comparison of Communication Networks built from explicit and implicit data”, in <i>Computational Approaches to Social Modeling (ChASM 2014)</i> , Blomington, IN. 2014	
	Agarwal S, <u>Mishra S</u> , Guo J, Phelps K, Picco J, “SentiNets: User Classification Based on Sentiment for Social Causes within a Twitter Network”, at <i>iConference</i> , Berlin, Germany 2014	
	Wilner S, <u>Mishra S</u> , Aleyasen A, Soltani S, Diesner J, “Comparison of Network Data Constructed from Bodies and Meta Data of Text Corpora”, at <i>Sunbelt</i> , St. Petersburg, FL 2014 [Presentation]	
	Diesner J, Aleyasen A, Kim J, <u>Mishra S</u> , Soltani S, “Using Socio-Semantic Network Analysis for Assessing the Impact of Documentaries”, in <i>WIN (Workshop on Information in Networks)</i> New York. 2013	
<b>OTHER WORK EXPERIENCE</b>	<b>Citrix</b> , Bangalore, India	
	Software Engineer, NetScaler INFRA Team	Jul 2012 – Jul 2013
	Authorization and content switching policy for NetScaler 10.1, Real time document annotation and chat collaboration UI for Podio workspaces in Node.js	
<b>OTHER WORK EXPERIENCE</b>	<b>Barclays Capital</b> , Singapore	
	Global Technology Analyst	May 2011 – Jul 2011
	Enhanced 6 year old VB 6.0 software and documented it, which saved the team 1 week per month of work. Developed C# based web application for deployment of scripts on OpenLink and Oracle.	
<b>OTHER WORK EXPERIENCE</b>	<b>Global Venture Lab</b> , Jyvaskyla, Finland	
	Lead Web Developer	Dec 2009 – Jan 2010
	Prototyped the company portal for networking & project management of its global membership. Developed & administered the company website, and coached the employees on its usage.	
<b>ACADEMIC HONORS &amp; AWARDS</b>	<i>Kishore Vaigyanik Protsahan Yojana Scholar</i>	2007– 2012
	Scholarship for science students doing research in India	
	<i>3rd rank in Regional Mathematics Olympiad, Uttar Pradesh, India</i>	2006

**TEACHING**

*Co-instructor - Network Analysis, Spring '18*

Teaching network analysis applications on social media data using python.

*Teaching Assistant - Network Analysis, Summer '17*

As part of the Information Science and Engineering Summer Program organized for Chinese students, sponsored by Global Education and Training (GET)

*Teaching Assistant - Foundations of Information Processing, Spring '17*

*Co-instructor - Data Mining Applications, Fall '16*

**Listed in Teachers Ranked as Excellent By Their Students!**

**ACADEMIC  
ROLES**

Reviewer for SNAM '16 and sub-reviewer for IC<sup>2</sup>S<sup>2</sup> (17), HyperText (16,17), SNAM '15, ICWSM (16,17), ECML PKDD '15, SM Society (15,17), COINS '15, SBP (15,17), and SocInfo '14.