

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, abel.lis.illinois.edu/gimli

ConText - Tool for extracting and analyzing network data from text May 2014 –
context.ischool.illinois.edu

Entity Extractor using CRF and Deep Learning May 2014 –
github.com/napsternxg/TwitterNER

SAIL - Sentiment Analysis and Incremental Learning May 2014 – Aug 2015
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].

PERSONAL PROJECTS	<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. https://github.com/napsternxg/DeepSequenceClassification	
	<i>Flavor savor</i>	Feb 2015
	An online map based interface for suggesting nearby restaurants based on flavor popularity and writing reviews using hashtags. https://github.com/napsternxg/FlavorSharer	
PEER REVIEWED PUBLICATIONS	<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. http://shubhanshu.com/FacebookGroupVisual/index.html	
	<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. https://github.com/napsternxg/ReadLater	
PEER REVIEWED PUBLICATIONS	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	
OTHER WORK EXPERIENCE	Citrix , 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	
OTHER WORK EXPERIENCE	Barclays Capital , 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.	
OTHER WORK EXPERIENCE	Global Venture Lab , 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.	
ACADEMIC HONORS & AWARDS	<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 IC²S² (17), HyperText (16,17), SNAM '15, ICWSM (16,17), ECML PKDD '15, SM Society (15,17), COINS '15, SBP (15,17), and SocInfo '14.