

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

PEER REVIEWED PUBLICATIONS

Mishra S, Fegley BD, Diesner J, and Torvik VI. “Expertise as an aspect of author contributions” in *METRICS 2018: ASIS&T workshop on informetrics and scientometrics research 2018* (to appear)

Mishra S, Fegley BD, Diesner J, and Torvik VI. “Self-Citation is the Hallmark of Productive Authors, of Any Gender” in *PLoS One* 2018 (to appear)

Mishra S, and Diesner J. “Detecting the correlation between sentiment and user- as well as text-level meta-data from benchmark corpora” in *HyperText* 2018

Mishra S, Lee H, Kim J, Torvik VI, and Diesner J. “Construction of hierarchical subject headings for computer science and their application to studying temporal trends in scholarly literature” in *IC2S2* 2018

Addawood A, Rezapour R, Mishra S, Schneider J, and Diesner J. “Developing an Information Source Lexicon” in *NIPS Workshop on Prioritising Online Content* Dec 2017

Collier DA, Mishra S, 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 *Journal of Further and Higher Education*. Sep 2017

Mishra S and Diesner J, “Semi-supervised Named Entity Recognition in noisy-text”, in *2nd Workshop on Noisy User-generated Text (W-NUT) at COLING 2016*. Dec 2016

Mishra S and Torvik VI, “Quantifying Conceptual Novelty in the Biomedical Literature”, in *D-Lib Magazine* (also presented at WoSP workshop, JCDL 2016). Sep 2016

Mishra S, Diesner J, Byrne J, and Surbeck E, “Sentiment Analysis with Incremental Human-in-the-Loop Learning and Lexical Resource Customization”, in *ACM Hypertext*, Cyprus, Turkey. 2015

Mishra S, Phelps K, Agarwal S, Picco J, Guo J, Diesner J, “Enthusiasm and Support: Alternative Sentiment Classification for Social Movements on Social Media”, in *ACM Web Science*, Blomington, IN. 2014

Diesner J, Aleyasen A, Mishra S, Schecter A, Contractor N, “Comparison of Communication Networks built from explicit and implicit data”, in *Computational Approaches to Social Modeling (ChASM 2014)*, Blomington, IN. 2014

Agarwal S, Mishra S, Guo J, Phelps K, Picco J, “SentiNets: User Classification Based on Sentiment for Social Causes within a Twitter Network”, at *iConference*, Berlin, Germany 2014

Wilner S, Mishra S, Aleyasen A, Soltani S, Diesner J, “Comparison of Network Data Constructed from Bodies and Meta Data of Text Corpora”, at *Sunbelt*, St. Petersburg, FL 2014 [Presentation]

Diesner J, Aleyasen A, Kim J, Mishra S, Soltani S, “Using Socio-Semantic Network Analysis for Assessing the Impact of Documentaries”, in *WIN (Workshop on Information in Networks)* New York. 2013

ACADEMIC HONORS & AWARDS	<p><i>Graduate Teacher Certificate</i> May 2018</p> <p><i>Kishore Vaigyanik Protsahan Yojana Scholar</i> 2007– 2012</p> <p>Scholarship for science students doing research in India</p> <p><i>3rd rank in Regional Mathematics Olympiad, Uttar Pradesh, India</i> 2006</p>
TEACHING	<p><i>Co-instructor - Network Analysis, Spring '18</i></p> <p>Teaching network analysis applications on social media data using python.</p> <p><i>Teaching Assistant - Network Analysis, Summer '17</i></p> <p>As part of the Information Science and Engineering Summer Program organized for Chinese students, sponsored by Global Education and Training (GET)</p> <p><i>Teaching Assistant - Foundations of Information Processing, Spring '17</i></p> <p><i>Co-instructor - Data Mining Applications, Fall '16</i></p> <p>Listed in Teachers Ranked as Excellent By Their Students!</p>
ACADEMIC ROLES	<p>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.</p>
RESEARCH PROJECTS	<p>School of Information Sciences, University of Illinois at Urbana-Champaign</p> <p>Research Assistant</p> <p><i>Multitask deep learning for improving information extraction from social media data</i> Aug 2017 – Building open source tool for supporting various information extraction tasks from social media.</p> <p><i>Automatic taxonomy construction for computer science papers and application to studying scholarly careers in South Korea</i> Aug 2017 –</p> <p>Funded by Korean Institute of Science and Technology Information</p> <p><i>Profiling authors and articles based on novelty, expertise and self-citation in PubMed</i> Jan 2014 – abel.lis.illinois.edu/legolas , abel.lis.illinois.edu/gimli</p> <p><i>ConText - Tool for extracting and analyzing network data from text</i> May 2014 –</p> <p>context.ischool.illinois.edu</p> <p><i>Entity Extractor using CRF and Deep Learning</i> May 2014 –</p> <p>github.com/napsternxg/TwitterNER</p> <p><i>SAIL - Sentiment Analysis and Incremental Learning</i> May 2014 – Aug 2015</p> <p>github.com/uiuc-ischool-scanr/SAIL</p> <p><i>SentiNets</i> 2013 – 2014</p> <p>Identification of enthusiastic supporters of social causes using text and network analysis.</p> <p>Department of Mathematics, Indian institute of Technology, Kharagpur</p> <p><i>Master Thesis: Analysis of Social Media Data to determine Positive and Negative Influential Nodes in the Network</i> Jul 2011 – May 2012</p> <p>Supervisors: Dr. Gloria Ng (NUS, Singapore) & Dr. Pawan Kumar</p> <p>Institute of Systems Science, National University of Singapore</p> <p>Research Assistant</p> <p><i>Tagging Singapore - A cloud based system using mash-up of dynamic data and online geographical maps for information co-creation</i> May 2009 – Jul 2009</p> <p>Supervisors: Dr. Gloria Ng</p> <p>The work was incorporated as a workshop exercise in the course on Service Innovation [SG5228].</p>

**PERSONAL
PROJECTS**

Deep Sequence Classification 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>

Flavor savor 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>

Facebook Group Visualizer 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>

ReadLater 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>

**PROFESSIONAL
WORK
EXPERIENCE**

Twitter, San Francisco, USA
Intern, Content Understanding & Applied Deep Learning Jun 2018 – Sep 2018
Worked on linking entities in tweets to Wikipedia pages (wikification task).
Built a library using Tensorflow for training, evaluation, and deployment of multiple wikification models.
Improved the existing model by a significant margin.

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

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.

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.