Lia Chen Bozarth

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EDUCATION

PhD.	Information School, University of Michigan	Sep 2016- May 2021
B.S.	Computer Science, University of Washington	Sep 2009- Dec 2012

PUBLICATIONS

Lia Bozarth & Joyojeet Pal, "*Twitter Discourse as a Lens into Politicians' Interest in Technology and Development*", in proceedings, ICTDX (2018).

Lia Bozarth & Ceren Budak, "*Is Slacktivism Underrated? Measuring the Value of Slacktivists for Online Social Movements*", in proceedings, ICWSM (2017).

IN PRESS:

Joyojeet Pal & Lia Bozarth, "*How Modi lost his mojo and Rahul roared to life on Twitter*", Quartz (2018).

Joyojeet Pal & Lia Bozarth, "*Is Tweeting in Indian Languages Helping Politicians Widen Their Reach?*", Economic and Political Weekly (2018).

UNDER REVIEW:

Lia Bozarth, Anmol Panda, Joyojeet Pal, "*From Greetings to Corruption: Politicians, Political Parties, and Tweeting in India*".

Lia Bozarth, Aparajita Saraf, Ceren Budak, "*Higher Ground? How Groundtruth Labeling Impacts Our Understanding of the Spread of Fake News During the 2016 Election*".

ACADEMIC SERVICE:

- Graduate Student Instructor (GSI) at University of Michigan
- Student Representative in Rackham Graduate Student Government
- Coordinator for the Computational Social Science Reading Group

RESEARCH UTILITIES

- Programming Languages: Python, R, Java, Javascript, PHP, and MySQL.
- Methods(techniques): network analysis, natural language processing, data mining, database management, data visualization, machine learning, web services, and Mechanical Turk crowdsourcing.
- Theories: network diffusion, media effects, political mass communication, information dissemination, power law, social capital, tie strength, collective action, social media activism.

RESEARCH HISTORY

Research Intern   Microsoft Research, India   May - Aug 2018

- Collected the tweets of top 4K most influential Indian Twitter accounts, 1.9K of which are Indian politicians from both national and regional levels.
- Built a pipeline on top of an ElasticSearch database to continuously aggregate and store new

tweets.
- Supervised web-based front-end data visualizations of Indian politicians' tweets
- Conducted research centered on politicians' social media strategies using nlp, machine learning, and network analysis. Results are published in both the academia and the press.

Research Assistant   University of Michigan, Ann Arbor   Sep 2016 - Current
- Built a MySQL pipeline to store and access over 45 million tweets. The pipeline significantly optimized subsequent data analysis processes.
- Utilized multiple Twitter APIs to gather additional data.
- Conducted topic modeling, sentiment analysis, tweet classification, propensity score matching, network analysis, and visualization on dataset to assess slacktivist contribution to online activism with respect to a wide scope of dimensions.
- Captured novel results within the field of social media activism and drafted a full paper within the first four months as a research assistant while taking the required coursework. The paper was accepted for publication as a short paper in ICWSM 2017.

Visiting Researcher   University of Washington, Seattle   Aug 2015 - Jan 2016
- Developed code to crawl top United States and Chinese websites in diverse categories, assessed and recorded each webpage's complexity score using method from existing literature.
- Designed draft experiments analyzing the effect of the webpage complexity on work efficiency of native Chinese speakers and of native English speakers.
- Presented and defended proposals in meetings, finalized research methods, implemented experiments to the production code repository.

WORK HISTORY

Software Engineer   Google Inc., Social Infrastructure   Jun 2014 - Feb 2016
- Developed and integrated the Revert API in the new social graph backend service.
- Re-architectured existing extended-circle Access Control List (ACL) code path.
- Implemented a new MapReduce to backfill missing SocialEntities in SuperGlue using FlumeJava.

Software Engineer   Amazon Inc., External Payments   Feb 2013 – Jun 2014
- Developed Instant Payment Notification (IPN) Integration Tool in SellerCentral.
- Coordinated the implementation of the Advanced Payment Main Integration Tool.
- One of the key engineers in building the External Payments Batch Processing Service.

Software Engineer Intern   Expedia Inc., Orders   Jun 2012 – Sep 2012
- Remodeled Order Management Service's (OMS) data search platform.