

## Lia Chen Bozarth (Curriculum Vitae)

lbozarth@umich.edu \* <https://lbozarth.com/> \* 206-434-2126 \* Twitter: @lia\_bozarth

### HIGHLIGHTS

---

- My professional goal is to conduct in-depth studies of existing large-scale socio-technological systems and then develop data-driven processes to improve such systems with the focus on promoting social good.
- 5 years of research in the field of computational social science.
- 3 years of industry experience as a full-stack software developer.

### EDUCATION

---

Ph.D.	Information School, University of Michigan	Expected June, 2022
B.S.	Computer Science, University of Washington	Sep 2009 - Dec 2012

### RESEARCH & WORK HISTORY

---

Ph.D. Candidate	University of Michigan	Sep 2016 - Jun 2022
Ph.D. Research Intern	Bell Labs, U.K.	May 2021 - Aug 2021
Ph.D. Research Intern	Microsoft Research, India	May 2018 - Aug 2018
Graduate Student Instructor	University of Michigan	Sep 2017 - Apr 2018
Visiting Researcher	University of Washington	Aug 2015 - Jan 2016
Software Engineer	Google Inc.	Jun 2014 - Feb 2016
Software Engineer	Amazon Inc.	Feb 2013 - Jun 2014
SDE Intern	Expedia Inc.	Jun 2012 - Sep 2012

### PUBLICATIONS

---

#### **Misinformation Papers:**

1. Lia Bozarth, Ceren Budak, "Market Forces: Quantifying the Role of Top Credible Ad Servers in the Fake News Ecosystem", ICWSM (2021).
2. Lia Bozarth, Ceren Budak, "An Analysis of the Partnership between Retailers and Low-credibility News Publishers", JQD:DM (2021).
3. Robert Bond, Lia Bozarth, Ceren Budak, Kelly Garrett, Jason Jones, Drew Margolin, "The Case for Studying Obscure Falsehoods", Harvard Kennedy School Misinformation Review (2021)
4. Lia Bozarth, Ceren Budak "Toward a Systematic Evaluation Framework of Fake News Classifiers", ICWSM(2020).
5. Lia Bozarth, Aparajita Saraf, and Ceren Budak, "Higher Ground? How Groundtruth Labeling Impacts Our Understanding of the Spread of Fake News During the 2016 Election", ICWSM(2020).

#### **Political Actors on Social Media Papers:**

6. Lia Bozarth, Ceren Budak, "Beyond the Eye-Catchers: a Large-Scale Study of Social Movement Organizations' Involvement in Online Protests". *New Media & Society* (2020)
7. Lia Bozarth & Ceren Budak, "Is Slacktivism Underrated? Measuring the Value of Slacktivists for Online Social Movements", in proceedings, ICWSM (2017).
8. Lia Bozarth, Anmol Panda, Joyojeet Pal, "From Greetings to Corruption: Politicians, Political Parties, and Tweeting in India", ICTD (2020).
9. Lia Bozarth & Joyojeet Pal, "Twitter Discourse as a Lens into Politicians' Interest in Technology and Development", in proceedings, ICTDX (2018).

#### **Non-archival Papers**

10. Lia Bozarth, Ceren Budak, "Market Forces: Quantifying the Role of Top Credible Ad Servers in the Fake News Ecosystem", IC2S2 (2020)
11. Lia Bozarth, Ceren Budak, "Measuring Ideological Bias in Fake News Classifiers", IC2S2 (2020)

## UNDER REVIEW

---

1. Lia Bozarth, Ceren Budak, “Keyword Expansion Techniques for Mining Social Movement Data on Social Media”
2. Chris Quarles, Lia Bozarth “How the Term “White Privilege” Affects Online Communication”
3. Ceren Budak, Robert Bond, Lia Bozarth, Kelly Garrett, Jason Jones, Drew Margolin, “Bursts of Co-publication Among High and Low Credibility Online News Publishers Observed on Facebook”

## AWARDS

---

1. Best Poster Award: Lia Bozarth, Ceren Budak, "Profit for You and Me: Exploring Ad Servers on Fake News Sites", for the category "Most Likely to Make a Societal Impact", MIDAS Data Symposium (2019)
2. Best Poster Award Honorable Mention: Lia Bozarth, Ceren Budak, “A Large-scale Study of Social Movement Organizations (SMOs) in Online Movements”, MIDAS TweetCon (2019)

## IN THE PRESS

---

1. Joyojeet Pal & Lia Bozarth, “*How Modi lost his mojo and Rahul roared to life on Twitter*”, Quartz (2018).
2. Joyojeet Pal & Lia Bozarth, “*Is Tweeting in Indian Languages Helping Politicians Widen Their Reach?*”, Economic and Political Weekly (2018).

## SKILLS

---

### Data Analytics:

- **Network analysis:** centrality, network cascade, network inference, community detection, motifs, Networkx, Snap
- **Natural language processing:** word2vec, sent2vec, clustering, topic modeling, part-of-speech parsing, entity extraction, SpaCy, BERT, HuggingFace
- **Machine learning:** feature engineering, bias analysis, supervised and semi-supervised learning, neural network, Scikit-learn, Tensorflow, PyTorch
- **Social media data mining:** Twitter streaming API, Reddit API, Youtube API, website scraping
- **Time-series analysis:** trend, outlier detection, prediction, ARIMA, ARIMAX

### General Programming:

- **Programming language:** Python, R, Java, Javascript, HTML&CSS
- **Distributed processing:** Hadoop, Spark, slurm, mpi4py
- **Data scraping:** Selenium, Trafilatura, scrapy, BeautifulSoup, XPATH
- **Data storage and management:** ElasticSearch, MongoDB, PHP&MySQL
- **Data visualization:** Gephi, ggplot2, Matplotlib
- **Web services:** Google Cloud Services, Amazon Web Services
- **Crowdsourcing:** Mechanical Turk, boto3
- **IDEs and OS tools:** Pycharm, Jupyter, Eclipse, Git, Bash

## ACADEMIC SERVICE

---

Graduate Student Instructor (GSI) for the following courses: Data Mining I, Data Mining II, Information Architecture, Fundamentals of Human Behavior, and Information Analytics Project.

Reviewer for the following venue: ICWSM, CSCW, New Media & Society, and WWW.

Served as the coordinator for the Computational Social Science Methods (CSSM) Reading Group

Served as a facilitator for UMSI's LGBTQ student group

Served as a student representative at Rackham Graduate Student Government