

Lia Chen Bozarth

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HIGHLIGHTS

- Seeking opportunities to provide data-driven solutions that generate measurable, positive social impact.
- 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.	School of Information, University of Michigan	Expected June, 2022
B.S.	Computer Science, University of Washington	Sep 2009 - Dec 2012

WORK & RESEARCH HISTORY

Ph.D. Candidate	University of Michigan	Sep 2016 - Ongoing
<ul style="list-style-type: none">• Built databases to store large-scale social media datasets, utilized distributed clusters to analyze data• Extrapolated meaningful characteristics and behavior of online actors (e.g., fake news publishers, social movement activists) through network analysis, natural language processing, and machine learning methods.• Published numerous manuscripts in the field of misinformation, online social movements, news media studies, and political communications.		
Ph.D. Research Intern	Bell Labs, U.K.	May 2021 - Aug 2021
<ul style="list-style-type: none">• Examined the geographical circulation of misinformation on Reddit		
Ph.D. Research Intern	Microsoft Research, India	May 2018 - Aug 2018
<ul style="list-style-type: none">• Built pipeline to continuously fetch Indian politicians' tweets via Twitter API, and then store data in ElasticSearch instances. Supervised front-end web services and data visualization.		
Visiting Researcher	University of Washington	Aug 2015 - Jan 2016
<ul style="list-style-type: none">• Developed a pipeline to crawl a large list of websites in diverse categories, and assess each webpage's complexity score using methods from existing literature.		
Software Engineer	Google Inc.	Jun 2014 - Feb 2016
<ul style="list-style-type: none">• Key engineer in the development and integration of the Revert API in Social Graph		
Software Engineer	Amazon Inc.	Feb 2013 – Jun 2014
<ul style="list-style-type: none">• One of the key engineers for the External Payments Batch Processing Service development.		

SKILLS & EXPERIENCE

Data Analytics:

- Social network analysis: centrality, cascade, community detection, motifs
- Natural language processing: text data mining, word2vec, topic modeling, part-of-speech parsing, entity extraction
- Machine learning: feature engineering, bias analysis, neural network, Tensorflow, PyTorch
- Time-series analysis: trend, outlier detection, prediction

General Programming:

- Programming Language: Python, R, Java, Javascript
- Distributed processing: Hadoop, Spark
- Data scraping: Selenium, Trafilatura
- Data storage and management: ElasticSearch, MongoDB
- Data visualization: Gephi, ggplot2
- Web services: Google Cloud, AWS
- Crowdsourcing: Mechanical Turk

SELECTED PUBLICATIONS

1. Lia Bozarth, Ceren Budak, "Market Forces: Quantifying the Role of Top Credible Ad Servers in the Fake News Ecosystem", forthcoming, ICWSM (2021)
2. Lia Bozarth, Ceren Budak, "An Analysis of the Partnership between Retailers and Low-credibility News Publishers", JQD:DM (2021)
3. Lia Bozarth, Ceren Budak "Toward a Systematic Evaluation Framework of Fake News Classifiers", ICWSM(2020).
4. Lia Bozarth, Ceren Budak, "Beyond the Eye-Catchers: a Large-Scale Study of Social Movement Organizations' Involvement in Online Protests". New Media & Society (2020)
5. Please see the complete list of publications at <https://lbozarth.com>