

Lia Chen Bozarth

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HIGHLIGHTS

- My professional objective is to develop data-driven solutions to address meaningful pitfalls in existing large-scale socio-technological systems.
- 5 years of research in the field of computational social science.
- 3 years of industry experience as a full-stack software developer.

EDUCATION

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|-------|---|---------------------|
| 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

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|-----------------------------|---------------------------|---------------------|
| 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 |

SKILLS & EXPERIENCE

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

SELECTED PUBLICATIONS

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 "Toward a Systematic Evaluation Framework of Fake News Classifiers", ICWSM(2020).
3. Lia Bozarth, Ceren Budak, "Beyond the Eye-Catchers: a Large-Scale Study of Social Movement Organizations' Involvement in Online Protests". New Media & Society (2020)
4. Please see the complete list of publications at <https://lbozarth.com>

ACADEMIC SERVICE

Served as a Graduate Student Instructor (GSI) for the following courses: Data Mining I, Data Mining II, Information Architecture, Fundamentals of Human Behavior, and Information Analytics Project.
Served as a facilitator for UMSI's LGBTQ student group
Served as a student representative at Rackham Graduate Student Government