Lia Chen Bozarth

lbozarth@umich.edu ● https://lbozarth.com ● 206-434-2126

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 Information 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 - 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