

# Emerson A. Azarbakht

CONTACT INFO	(347) 276-0790 emerson.azarbakht@gmail.com <a href="https://www.linkedin.com/in/azarbakht">Linkedin.com/in/azarbakht</a> <a href="https://github.com/azarbakht">Github.com/azarbakht</a>	Mountain View, CA 94041
SKILLS	Programming languages: <b>Python, Java, R, Matlab, C, C++, Bash</b> Statistical Analysis: <b>R</b> Databases: <b>SQL, Hive, Pig, Neo4j, Cypher</b> Data visualization tools: <b>D3.js, ggplot2</b> Data Munging tools: <b>sed, awk, OpenRefine, Trifacta/Data Wrangler, R data.table, R dplyr</b> Tools: <b>Git, Knitr, Shiny, Markdown, Linux, Hadoop, Hive, Pig, IPython, NumPy, Pandas, Matplotlib, Scikit-Learn</b>	
EDUCATION	<b>Ph.D., Computer Science, <i>Oregon State University</i></b> <span>2017</span> <i>Longitudinal analysis &amp; statistical modeling of collaboration graphs of software development</i> <b>M.S., Computer Science, <i>Chalmers University, Sweden</i></b> <span>2011</span>	
EXPERIENCE	<b>Senior Data Scientist</b> <span>Sept 2017 - present</span> <b><i>Yahoo! Search Analytics Team/Oath Inc.</i></b> <ul style="list-style-type: none"><li>Established and drove instrumentation standards and validation across products</li><li>Worked closely with product teams to understand their requirements and provided guidance on experiment design and measurement</li><li>Coordinated and troubleshoot data issues that were raised from numbers reported in reporting systems</li><li>Worked with product teams to understand business problems, formulated analysis plan, analyzed data and delivered actionable insights.</li><li>Extracted data from Hadoop file system using Pig/Hive and used statistical tools and techniques to analyze data to improve user experience and monetization.</li><li>Used deep analytical capabilities to transform data into actionable insights and effectively presented findings to product partners and senior management and helped influence product and business decisions.</li></ul> <b>Instructor/Graduate Teaching and Research Assistant</b> <span>Sept 2011-June 2017</span> <b><i>Oregon State University, School of Electrical Engineering and Computer Science</i></b> <ul style="list-style-type: none"><li>Developed a course (CS 464) for the OSU online CS program (Ranked #7 in the United States)</li><li>Taught the following two courses for the OSU Online CS Program (Ranked #7 in the United States) <i>Open Source Software Development (CS 464)</i> <i>User Experience Design (CS 352)</i></li><li>As an instructor, I taught 1,070 post-baccalaureate students and helped them switch careers to get tech jobs.</li><li>I maintained lectures, designed student engagement strategies, and supervised over 26 graduate teaching assistants.</li><li>As a teaching assistant, I helped 500 CS major sophomores learn C programming, by teaching recitations and helping them debug C code. I graded 2300 C programs, wrote shell scripts to automate compilation, execution and grading, and provided individual feedback to students on how to debug and fix C code.</li><li>As a research assistant, I worked on a statistical approach for modeling longitudinal change in software development social networks. Developed a comparative approach to quantify social dynamics, found a well-fitting statistical model of covariates for longitudinal changes in social graphs of software development.</li></ul>	
PUBLICATIONS	<ul style="list-style-type: none"><li>Azarbakht, E.A., C. Jensen, "Longitudinal Analysis of the Run-up to a Decision to Break-up (Fork) in a Community," <i>Proc. 13th Int'l. Conf. Open Source Systems</i>, 2017.</li><li>Azarbakht, E. A., "Longitudinal Analysis of Collaboration Graphs of Forked Open Source Software Development Projects Using An Actor-oriented Social Network Analysis," <i>Proc. Int'l. Net. for Social Net. Analysis conf.</i>, 2016.</li><li>Azarbakht, E. A., "Longitudinal Analysis of Collaboration Graphs of Forked Open Source Software Development Projects," <i>Proc. 12th Int'l. Conf. Open Source Systems Doct. Cons.</i>, 2016.</li><li>Azarbakht, A. and C. Jensen, "Drawing the Big Picture: Temporal Visualization of Dynamic Collaboration Graphs of OSS Software Forks," <i>Proc. 10th Int'l. Conf. Open Source Systems</i>, 2014.</li></ul>	

- Azarbakht, A. and C. Jensen, “Temporal Visualization of Dynamic Collaboration Graphs of OSS Software Forks,” *Proc. Int’l. Network for Social Network Analysis Sunbelt conf.*, 2014.
  - Davidson, J, R. Naik, A. Mannan, A. Azarbakht, C. Jensen, “Investigating Older Adults’ Experiences with Contributing to Free/Open Source Software,” *Proc. IEEE Symp. Visual Languages and Human-Centric Computing*, 2014.
  - Azarbakht, A., “Temporal Visualization of Collaborative Software Development in FOSS Forks,” *Proc. IEEE Symp. Visual Languages and Human-Centric Computing*, 2014.
  - Azarbakht, A., “Drawing the Big Picture: Analyzing FLOSS Collaboration with Temporal Social Network Analysis,” *Proc. 9th Int’l. Symp. Open Collaboration*, 2013.
- 

#### GRADUATE COURSES

- |  |  |
|--|--|
| • Machine Learning                     | • Algorithms & Data Structures                   |
| • Time Series Analysis                 | • Open Source Software Development               |
| • Statistical Methods of Data Analysis | • Mobile & Cloud Software Development            |
| • Theory of Statistics I               | • HCI meets Software Development: The Case Study |
| • Theory of Statistics II              | • Unix Internals: FreeBSD Operating System       |
| • Stochastic Optimization              | • Ubiquitous Computing                           |
| • Computer Vision                      | • Qualitative & Quantitative Research Methods    |
| • Artificial Intelligence              |  |