

Amirhosein “Emerson” Azarbakht

CONTACT INFO	(347) 276-0790 emerson.azarbakht@gmail.com Linkedin.com/in/azarbakht Github.com/azarbakht	Mountain View, CA 94043
SKILLS	Programming languages: Python, Java, R, Matlab, C, C++, Bash Statistical Analysis: R Databases: SQL, Hive, Pig, Neo4j, Cypher Data visualization tools: D3.js, ggplot2 Data Munging tools: sed, awk, OpenRefine, Trifacta/Data Wrangler, R data.table, R dplyr Tools: Git, Knitr, Shiny, Markdown, Linux, Hadoop, Hive, Pig, IPython, NumPy, Pandas, Matplotlib, Scikit-Learn	
EDUCATION	Ph.D., Computer Science, <i>Oregon State University</i> <i>Longitudinal analysis & statistical modeling of collaboration graphs of software development</i> M.S., Computer Science, <i>Chalmers University, Sweden</i> B.S., Computer Science, <i>Azad University of Tehran</i>	<i>2011-2017</i> <i>2009-2011</i> <i>2004-2008</i>
EXPERIENCE	Senior Data Scientist <i>Yahoo! Search Analytics Team/Oath Inc.</i> <ul style="list-style-type: none">Established and drove instrumentation standards and validation across productsWorked closely with product teams to understand their requirements and provided guidance on experiment design and measurementCoordinated and troubleshoot data issues that were raised from numbers reported in reporting systemsWorked with product teams to understand business problems, formulated analysis plan, analyzed data and delivered actionable insights.Extracted data from Hadoop file system using Pig/Hive and used statistical tools and techniques to analyze data to improve user experience and monetization.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.	<i>Sept 2017 - present</i>
	Instructor/Graduate Teaching and Research Assistant <i>Oregon State University, School of Electrical Engineering and Computer Science</i> <ul style="list-style-type: none">Developed a course (CS 464) for the OSU online CS program (Ranked #7 in the United States)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>As an instructor, I taught 1,070 post-baccalaureate students and helped them switch careers to get tech jobs.I maintained lectures, designed student engagement strategies, and supervised over 26 graduate teaching assistants.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.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.	<i>Sept 2011-June 2017</i>
PUBLICATIONS	<ul style="list-style-type: none">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.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.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.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.	

- 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.
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GRADUATE COURSES

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| • 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 | |