

Emerson A. Azarbakht

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SPECIALTY	Data Scientist skilled in Statistics & Machine Learning	
NATIONALITY	Canadian Permanent Resident	
SKILLS	Programming languages: Python, Java, R, Matlab, C, C++, Bash Statistical Analysis: R Databases: MySQL, Neo4j, SQL, Cypher, Hive 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, IPython, NumPy, Pandas, Matplotlib, Scikit-Learn	
EDUCATION	Ph.D., Computer Science, Oregon State University 2017 <i>Longitudinal analysis & statistical modeling of collaboration graphs of software development</i> M.S., Computer Science, Chalmers University, Sweden 2011	
EXPERIENCE	Data Scientist, Yahoo! Search Analytics Team/Oath Inc. 2017-present Worked with product teams to understand problems Analyzed data, delivered actionable insights to improve user experience and monetization. Presented findings and influenced product and business decisions. Instructor, School of Computer Science, Oregon State University <i>Open Source Software Development (CS 464)</i> 2017 <i>User Experience Design (CS 352)</i> 2014-2016 Helped 1,070 post-baccalaureate students switch careers and get CS jobs. Helped 500+ students debug C programs. Wrote Bash shell scripts to automate compilation, execution and grading Developed a CS course for the OSU Online CS program. (Ranked #7 in the United States) Brought 1.9 million dollars revenue to the department. Research Assistant, School of Computer Science, Oregon State University 2011-2017 <i>Software Engineering, Usability & Programming Languages Lab</i> Developed statistical models for changing social networks.	
PROJECTS	A Statistical Approach for Modeling Longitudinal Change in Social Networks 2014-2017 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 A Machine Learning Approach for Taming Compiler Fuzzers 2014 Developed a comparative cluster-ensemble approach to tame compiler fuzzers, improved state-of-the-art, as our approach found more unique bugs than the state-of-the-art. An Augmented Reality Mirror: aMir 2010 Developed a prototype of a augmented mirror to practice interaction design by doing. The project combined technical knowledge with design thinking.	
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," <i>Proc. Int'l. Network for Social Network Analysis Sunbelt conf.</i>, 2014.Davidson, J, R. Naik, A. Mannan, A. Azarbakht, C. Jensen, "Investigating Older Adults' Experiences with Contributing to Free/Open Source Software," <i>Proc. IEEE Symp. Visual Languages and Human-Centric Computing</i>, 2014.Azarbakht, A., "Temporal Visualization of Collaborative Software Development in FOSS Forks," <i>Proc. IEEE Symp. Visual Languages and Human-Centric Computing</i>, 2014.Azarbakht, A., "Drawing the Big Picture: Analyzing FLOSS Collaboration with Temporal Social Network Analysis," <i>Proc. 9th Int'l. Symp. Open Collaboration</i>, 2013.	
GRADUATE COURSES	<ul style="list-style-type: none">Machine LearningTime Series AnalysisStatistical Methods of Data AnalysisTheory of Statistics I & II	<ul style="list-style-type: none">Stochastic OptimizationArtificial IntelligenceAlgorithms & Data StructuresMobile & Cloud Software Development
