

# Emerson A. Azarbakht

CONTACT INFO	(347) 276-0790 azarbaka@oregonstate.edu Linkedin.com/in/azarbakht Github.com/azarbakht	San Francisco, CA 94134
SPECIALTY	<b>Research Scientist Skilled in Statistics, Machine Learning, &amp; User Experience Design</b>	
NATIONALITY	Canadian Permanent Resident, Eligible to work in the U.S.	
EDUCATION	<b>Ph.D., Computer Science, <i>Oregon State University</i></b> 2011-2016 <i>Longitudinal analysis &amp; statistical modeling of collaboration graphs of software development</i> <b>M.S., Computer Science, <i>Chalmers University of Technology</i>, Sweden</b> 2009-2011 <b>B.S., Computer Engineering, <i>Azad University of Tehran</i></b> 2004-2008	
SKILLS	Programming: <b>Java</b> (expert), <b>Python</b> (proficient), <b>R</b> (expert), <b>MATLAB</b> (expert), <b>C</b> (proficient), <b>C++</b> (prior experience), <b>Bash</b> (prior experience) Statistical Analysis: <b>R</b> (expert) Database: <b>SQL</b> , <b>Hive</b> , <b>Neo4j</b> Tools: <b>Git</b> , <b>Hadoop</b> , <b>Gephi</b> , <b>L<sup>A</sup>T<sub>E</sub>X</b> , <b>Linux</b>	
EXPERIENCE	<b>Data Science Research Assistant, <i>School of Computer Science, Oregon State University</i></b> <i>Software Engineering, Usability &amp; Programming Languages Lab</i> 2011-present Developed statistical models for changing social networks. (Think how <i>your LinkedIn</i> network has changed over time & what that says about you & your workplaces.)  <b>User Experience Design Instructor, <i>School of Computer Science, Oregon State University</i></b> <i>User Experience Design (CS 352)</i> 2014-2016 Helped 880 post-baccalaureate students learn user experience skills, to switch into CS careers.  <b>Data Structures Teaching Assistant, <i>School of Computer Science, Oregon State University</i></b> <i>Data Structures (CS 261)</i> 2012-2014 Wrote shell scripts to automate compilation, runtime and grading & helped students debug C code.	
PROJECTS	<b>A Statistical Approach for Modeling Change in Social Networks</b> 2014 Developed a comparative approach to quantify social dynamics, found a well-fitting statistical model of covariates for longitudinal changes in social graphs. <b>A Machine Learning Approach for Taming Compiler Fuzzers</b> 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. <b>An Augmented Reality Mirror: aMir</b> 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"><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><li>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.</li><li>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.</li><li>Azarbakht, A., "Temporal Visualization of Collaborative Software Development in FOSS Forks," <i>Proc. IEEE Symp. Visual Languages and Human-Centric Computing</i>, 2014.</li><li>Azarbakht, A., "Drawing the Big Picture: Analyzing FLOSS Collaboration with Temporal Social Network Analysis," <i>Proc. 9th Int'l. Symp. Open Collaboration</i>, 2013.</li><li>Azarbakht, A. and C. Jensen, "Analyzing FOSS Collaboration &amp; Social Dynamics with Temporal Social Networks," <i>Proc. 9th Int'l. Conf. Open Source Systems Doct. Cons.</i>, 2013.</li></ul>	
GRADUATE COURSES	<ul style="list-style-type: none"><li>Machine Learning</li><li>Time Series Analysis</li><li>Statistical Methods of Data Analysis</li><li>Theory of Statistics I &amp; II</li><li>Stochastic Optimization</li><li>Computer Vision</li><li>Artificial Intelligence</li><li>Algorithms &amp; Data Structures</li><li>Mobile &amp; Cloud Software Development</li><li>Qualitative &amp; Quantitative Research Methods</li></ul>	