

Emerson A. Azarbakht

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| CONTACT INFO | (347) 276-0790 azarbaka@oregonstate.edu Linkedin.com/in/azarbakht Github.com/azarbakht | | San Francisco, CA 94134 |
| SPECIALTY | Research Scientist Skilled in Statistics, Machine Learning, & User Experience Design | | |
| NATIONALITY | Canadian Permanent Resident, Eligible to work in the U.S. | | |
| EDUCATION | Ph.D., Computer Science, <i>Oregon State University</i> 2011-2016 <i>Longitudinal analysis & statistical modeling of collaboration graphs of software development</i> M.S., Computer Science, <i>Chalmers University of Technology</i>, Sweden 2009-2011 B.S., Computer Engineering, <i>Azad University of Tehran</i> 2004-2008 | | |
| SKILLS | Programming: Java (expert), Python (proficient), R (expert), MATLAB (expert), C (proficient), C++ (prior experience), Bash (prior experience) Statistical Analysis: R (expert) Database: MySQL , Hive , Neo4j Tools: Git , Hadoop , Gephi , Univa Grid Engine , Linux | | |
| EXPERIENCE | Data Science Research Assistant, <i>School of Computer Science, Oregon State University</i> <i>Software Engineering, Usability & 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.) User Experience Design Instructor, <i>School of Computer Science, Oregon State University</i> <i>User Experience Design (CS 352)</i> 2014-2016 Helped 880 post-baccalaureate students learn user experience skills, to switch into CS careers. Data Structures Teaching Assistant, <i>School of Computer Science, Oregon State University</i> <i>Data Structures (CS 261)</i> 2012-2014 Wrote shell scripts to automate compilation, runtime and grading & helped students debug C code. | | |
| PROJECTS | A Statistical Approach for Modeling Change in Social Networks 2014 Developed a comparative approach to quantify social dynamics, found a well-fitting statistical model of covariates for longitudinal changes in social graphs. 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., "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.Azarbakht, A. and C. Jensen, "Analyzing FOSS Collaboration & Social Dynamics with Temporal Social Networks," <i>Proc. 9th Int'l. Conf. Open Source Systems Doct. Cons.</i>, 2013. | | |
| GRADUATE COURSES | <ul style="list-style-type: none">Machine LearningTime Series AnalysisStatistical Methods of Data AnalysisTheory of Statistics I & IIStochastic OptimizationComputer VisionArtificial IntelligenceAlgorithms & Data StructuresMobile & Cloud Software DevelopmentQualitative & Quantitative Research Methods | | |