

Emerson A. Azarbakht

CONTACT INFO	(347) 276-0790 emerson.azarbakht@gmail.com Linkedin.com/in/azarbakht Github.com/azarbakht	Toronto, Canada Canadian Permanent Resident
SPECIALTY	Data Scientist skilled in Statistics & Machine Learning	
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, USA 2011-2017 <i>Longitudinal analysis & statistical modeling of collaboration graphs of software development</i> M.S., Computer Science, Chalmers University of Technology, Sweden 2009-2011 B.S., Computer Science, Azad University of Tehran 2004-2008	
EXPERIENCE	Data Science Research Assistant, School of Computer Science, Oregon State University <i>Software Engineering, Usability & Programming Languages Lab</i> 2011-2017 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.) 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. 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. Graduate Teaching Assistant, School of Computer Science, Oregon State University <i>Data Structures (CS 261)</i> 2012-2014 Helped 500+ students debug C programs. Wrote Bash shell scripts to automate compilation, execution and grading	
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., "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 OptimizationArtificial IntelligenceAlgorithms & Data StructuresMobile & Cloud Software Development	