Ladan Doroud

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Skills and Expertise:

Data Analysis, Computational Biology and Bioinformatics, Big Data, Large-scale Network Analysis, Machine Learning, Mathematical and Statistical Modeling, Clustering, Algorithms and UX Design

Programming Languages: Python, Perl, C++, SQL, HTML, Bash Script, Git, IPython
Analytics: MATLAB, R, Gephi, Cytoscape, Pajek, Python data science packages (networkx, numpy, scipy, matplotlib, pandas)
Big Data: Hadoop and Map Reduce

Experience

Udacity, Inc. – Internship   **Summer 2014**
Course Manager on Data Science track:
Responsible for Hadoop and Map Reduce, Data Science, Exploratory Data Analysis, Statistics

Jonathan Eisen's Lab – Graduate Student Researcher   **2010-Present**

Designing and implementing novel approaches toward community detection and function prediction for large-scale networks of protein sequences

COSMOS program   **Summer 2011**
Teaching assistant for California State Summer School for Mathematics and Science at UC Davis, Responsible for teaching computer programming in robotics

Education

University of California, Davis – PhD in Computer Science   **2010-2016**
Thesis Topic: Community Detection and Function Prediction in large-scale protein networks – Structural Role discovery and mining in graphs
University of California, Davis - Master in Computer Science **2010-2013**
Shahid Beheshti University - B.Sc. in Computer Science   **2006-2010**

Publications

- [Paper] Dongying Wu, Ladan Doroud, and Jonathan A. Eisen. "TreeOTU: Operational Taxonomic Unit Classification Based on Phylogenetic Trees." arXiv preprint arXiv:1308.6333 (2013).
- [Technical Book Reviewer] "Mastering Gephi Network Visualisation", Packt Publishing 2015
- [Poster] Ladan Doroud, Jonathan A.Eisen. "Use of Extreme Sets as a Tool in Making Predictions of Protein Function from Sequence" CRA-W Graduate Cohort Workshop 2014

Certificate

Center for Excellence in Teaching and Learning, UC Davis Awarded certificate in Learner-Centered Teaching and Designing Courses, Activities, and Assessments to Enhance Student Learning 2013