

Ladan Doroud

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Skills and Expertise

Large-scale Network Analysis, Big Data, Programming, Genomics, Mathematical and Statistical Modeling, Machine Learning, Algorithms, Research, Time-series Analysis

Programming: Python, Perl, C++, AWK, Bash Script, SQL, HTML, Jupyter

Analytics: Python data science packages (networkx, scikit-learn, seaborn, pandas), Gephi, MATLAB, QIIME

Big Data: Hadoop and Map Reduce, Multi-Processing

Experience

Animal Microbiome Analytics, Inc. – CoFounder Summer 2016

- Got funded for a grand total of \$250K by IndieBio

Insight Data Science – Fellow Summer 2016

- Developed an optimized pipeline enhancing anomaly detection in Lending Club data and built an internal recommendation app to reduce the risk of late payoffs and loan defaults
- Delivered a risk estimator using scikit-learn's random forest classification algorithm
- Deployed a web app online using flask, bootstrap and javascript and hosted the app on Amazon AWS

Ancestry.com, Inc. – Intern Summer 2015

- Collaborated with AncestryDNA team as a computational biologist
- Large scale network analysis (community detection) to find novel hierarchical IBD clusters among 1 million customers using their genetic data and consequently various in-depth analysis on each cluster
- Developed an efficient pipeline (using Hadoop) for haplotype matching among IBD clusters that resulted in building De Bruijn graphs for each cluster.

Udacity, Inc. – Intern Summer 2014

- Course Manager for Data Science Nanodegree
- Assisted in designing and gathering materials for new online courses
- Maintained and supported the following courses: Hadoop and Map Reduce, Data Science, Exploratory Data Analysis, Statistics

University of California, Davis – Graduate Student Researcher in Prof. Eisen's Lab 2010-Present

- Designed and implemented novel approaches toward community detection, Structural role discovery and function prediction for large-scale networks

COSMOS program – Teaching assistant Summer 2011

- Teaching assistant for California State Summer School for Mathematics and Science at UC Davis for computer programming in robotics

Education

University of California, Davis – PhD/Master in Computer Science 2010-2016

Dissertation Topic: Community Detection and Function Prediction in large-scale networks, Time-series Networks, Structural Role discovery and mining in graphs

Shahid Beheshti University – B.Sc. in Computer Science 2006-2010

Awards

- **Google Code Jam:** Won Google Code Jam to I/O 2016 contest (for Women)
- **Fellowship:** UC Davis Graduate Research Fellowship Spring 2015