

Ladan Doroud

✉ ladan.doroud@gmail.com

🏠 <http://ladandoroud.com>

in [ladandoroud](#)

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🐦 [ldoroud](#)

EDUCATION

University of California, Davis

PhD in Computer Science

Dissertation: Network Analysis in Microbial systems

📅 2013 - 2017

University of California, Davis

M.Sc. in Computer Science

📅 2010 - 2013

Shahid Beheshti University

B.Sc. in Computer Science

📅 2006 - 2010

SKILLS

Programming: Python, Bash, SQL, (some) R, (some) Perl, (some) C++

Data Analysis: scikit-learn, pandas, networkx, NLTK, scipy, (some) pytorch

Big Data: Hadoop, (some) spark

Analytics: ETL, SQL, Django, dbt, Google BigQuery, Metabase

Tools: Jupyter notebooks, sagemaker, Slurm, Airflow, Rshiny

Awards

Patents: Community assignments in identity by descent networks and genetic variant origination

Google Code Jam: Won Google Code Jam to I/O 2016 contest for Women

Fellowship: UCD Graduate Research Fellowship (Spring 2015, Winter 2017)

WORK EXPERIENCE

Color.com Data Scientist

Jan 2020 - March 2023

- Developed polygenic risk scores (PRS) at color - I exclusively owned end-to-end lifecycle of this project, starting from R&D (leveraging UK biobank, dbGaP, PGS catalog), genomic imputation, data and statistical analysis and modeling, clinical validations, [productionizing](#) and supporting ETL, reports and dashboards for analytics
- Built a cross functional data team (resume screening, hiring, mentoring) and created team roadmaps and OKRs. Additionally I recruited and interviewed 50+ applicants for scientist, analytics engineering and data analytics positions.
- Supported and maintained ETL (Google BigQuery), dbt transformation, developed new django-based tasks and aided analytics team with dashboards
- Hands on work in the following customer-facing products: [All Of Us](#), [COVID testing](#), Essential Care, PRS
- Writing and contributing to [publications](#), developing interactive [webapps](#) and [external collaborations](#) with many academic institutes.

Ancestry.com Staff (Genomics) Data Scientist

April 2017 -Dec 2019

- Extensive algorithm and software development to analyze more than 17M+ customer's genomics data
- Developed machine learning techniques to predict phenotypes based on genotype data
- Project management and hands on experience for multiple core products: Genetics communities, Matching, etc
- Contributing to publications and [patents](#)

AnimalBiome CoFounder

2016

- Built business development plans as well as prototyping the initial software to analyze the data. Received 250K seed funding from [IndieBio](#)

AncestryDNA Internship

June 2015 - Sep 2015

- Analyzing large scale networks (community detection) to find novel hierarchical IBD clusters among 1M customers and developing an efficient pipeline (using Hadoop) for haplotype matching

Udacity, Inc Internship Course Manager

June 2014 - Sep 2014

- Maintained and created the materials for following online courses: Hadoop and Map Reduce, Data Science, Exploratory Data Analysis, Statistics