Pouya Kheradpour pouya.kheradpour.com (949) 751-7015 pouyak@gmail.com

Qualification summary U.S. Citizen

Large-scale biological data processing, analysis (genome sequence, population variation, epigenetic/TF ChIP-chip/seq, ATACseq, gene expression RNA-seq/microarrays, microbiome 16S/metagenomics)

- o Machine learning, statistics, computational modeling, high-throughput computing, experiment design
- o C/C++, Java, R, MATLAB, Python, HTML, Bash, BigQuery, Terraform

Education

• Massachusetts Institute of Technology at Cambridge, MA

August 2005-February 2012

GPA 5.00 (A = 5.00)

Ph.D. in Computer Science Advisor: Manolis Kellis

Thesis title: Computational Regulatory Genomics: Motifs, Networks, and Dynamics

National Science Foundation Graduate Research Fellow (2005-2008)

o University of Illinois at Urbana-Champaign

August 2001-May 2005

B.S., M.S. in Computer Science

GPA 4.00 (A = 4.00)

Advisors: ChengXiang Zhai, Gene Robinson, Charles Whitfield

Thesis title: Computational Methods for Modeling Eukaryotic Gene Regulation

Research

Verily Life Sciences—Staff Data Scientist
Verily Life Sciences—Staff Scientist
Verily Life Sciences—Senior Scientist
Verily Life Sciences—Senior Scientist
Verily Life Sciences—Scientist
Vovember 2015—April 2017
Google[x]—Quantitative Analyst
October 2021—Present
March 2020—October 2021
April 2017—March 2020
November 2015—April 2017
July 2015—November 2015

Computational Biology Tech Lead. Research, analysis, infrastructure for Immune Profiler, Wastewater projects

o MIT CSAIL—Postdoctoral Associate

February 2012-July 2015

Designed, analyzed high-throughput enhancer experiments; characterized RNA edited sites across hundreds of individuals, dozens of tissues; predicted links between enhancers and genes; developed model to distinguish individuals from NGS data

o MIT CSAIL—Graduate Research Assistant

August 2005-February 2012

Developed, applied algorithms to understand regulatory dynamics of regulatory motifs, epigenetic data NIH consortia member: 12 Drosophila, 29 Mammals, ENCODE, modENCODE, Epigenomics Roadmap, GTEx

 $\circ \quad \textbf{UIUC Entomology} \\ -\! \text{Research Assistant}$

February 2003-August 2005

Applied computational methods for microarray and sequence analysis of honey bee and related organisms

o **Argonne National Laboratory**—Research Intern

Summer 2003

Designed genetic and statistical algorithms for identifying functional sites in BRCA1 proteins

Teaching

o Linguam Connect LLC—Instructor

Summer 2014

CCP11/CCP13: Designed and taught online course on JavaScript programming

MIT Electrical Engineering and Computer Science—Graduate Teaching Assistant Fall 2005, Fall 2008 6.095/6.047: Undergraduate/graduate computational biology course; wrote and graded homework and exam problems; led recitation sessions; delivered five guest lectures between 2008-2012

UIUC Computer Science—Graduate Teaching Assistant
Spring 2004, Fall 2004, Spring 2005
CS101: Undergraduate introductory computer science course in MATLAB and C; taught two laboratory sections weekly and helped write and grade exam and laboratory problems
Awarded Excellent Teaching Assistant in 2004, Outstanding Teaching Assistant in 2005