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FDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

B.Sc. IN ELECTRICAL ENGINEERING & COMPUTER SCIENCE

Fall '14 - Spring '17 | Berkeley, CA Note: Graduate School (PhD) Intended GPA: 3.63/4.0

LA CANADA HIGH SCHOOL

Fall '11 - Spring '14 | La Canada, CA GPA: 4.7/4.0

SKILLS

PROGRAMMING

Python (Scikit Learn, NumPy, etc.) • Java • R • Łata • HTML • CSS • JavaScript

MATHEMATICS & STATISTICS

Calculus: Integral • Differential • Vector Multivariable • Lambda • (Partial) Differential Equations • Linear Algebra Probability Theory • Bayesian Inference (Some) non-Parametric Statistics • (Some) Algebra

FRAMEWORKS & MISC.

Git/VCS • Apache Spark • Hadoop • Digital Signal Processing • Circuit and Design • Android Studio

LINKS

Github:// RemarkablyAverage LinkedIn:// RemarkablyAverage

COURSEWORK

GRADUATE

Algorithms & Uncertainty Combinatorial Algorithms & DS Computational Geometry Special Topics in Deep Learning

UNDERGRADUATE

Efficient Algorithms
Computational Photography
Computer Architectures
Human Computer Interaction
Discrete Mathematics
Probability Theory
Designing Information Systems I, II

RESEARCH EXPERIENCE

PACHTER GROUP | UNIVERSITY OF CALIFORNIA, BERKELEY

RESEARCH ASSISTANT

Fall 2015 - Present | Berkelev, CA

Principal Investigator: Professor Lior Pachter

- Research in novel approaches to RNA-sequencing with the features in abundance estimation transcript annotation difficulties, differential expression
- Current investigation on improving single cell RNA-seq analysis through high dimensional statistics and machine learning methods

RAO GROUP | UNIVERSITY OF CALIFORNIA, BERKELEY

RESEARCH ASSISTANT

Summer 2016 – Present | Berkeley, CA Principal Investigator: Professor Satish Rao

- Research in phylogenetic algorithms and optimization of estimation accuracies on various trees and super tree reconstruction
- Current investigation on faster multiple sequence alignment (MSA) methods

INDUSTRY EXPERIENCE

NEC RESEARCH INSTITUTE RESEARCH SCIENTIST INTERN

Summer 2017 | Princeton, New Jersey

- Researched deep learning problems focused on memory based networks and video action recognition with work slated for submission to ICLR/NIPS.
- Only undergraduate research assistant in Ph.D level work and in the accepted candidate pool

FACTUAL INC. SOFTWARE ENGINEERING INTERN

Summer 2016 | Los Angeles, CA

- Worked on probabilistic deduplication, entity resolution, and record linkage of various locations databases with investigation into several methods such as Latent Dirichlet Allocation, non-parametric Bayesian inference
- Improved various metrics such as F1 score, RMSE, log loss

PROJECTS

SLEUTH R

- Implement statistical algorithms for pseudo-alignment of RNA transcripts with interactive plots for real-time exploratory analysis
- Visualization of bias weights of RNA through integration of bias weights and hexamer indices

SCRNA ERROR CORRECTION PYTHON

• Investigate data re-imputation through various maximum likelihood estimators, Bayesian inference, and Latent Dirichlet Allocation

AWARDS

2016 top 10% Dean's Honors List College of Engineering 2014 top 3/250 MIT Think Award