

Contact

www.linkedin.com/in/eric-scott-5997a97 (LinkedIn)

Top Skills

Bioinformatics
Genetics
Genomics

Honors-Awards

High Honors in Major
College Honors
NSF Fellowship Honorable Mention
Eagle Scout Award

Publications

Deconvoluting complex patent
Markush structures: A novel R-group
numbering system

Error correction of high-throughput
sequencing datasets with non-
uniform coverage

Mutations in BCKD-kinase Lead to a
Potentially Treatable Form of Autism
with Epilepsy

Eric Scott

Director, Bioinformatics at GRAIL, Inc.
United States

Summary

Passionate about transitioning genetics research into human
diagnostic tests that can change people's lives.

Experience

GRAIL

8 years 5 months

Director of Bioinformatics
August 2022 - Present (2 years)

Associate Director, Bioinformatics
January 2021 - September 2022 (1 year 9 months)

Group Lead, Bioinformatics Scientist
December 2019 - January 2021 (1 year 2 months)

Senior Bioinformatics Scientist
November 2017 - December 2019 (2 years 2 months)

Bioinformatics Scientist II
March 2016 - November 2017 (1 year 9 months)
Member of the algorithms team

University of California, San Diego
5 years 7 months

Postdoctoral Researcher
November 2015 - March 2016 (5 months)
RNA-seq analysis

Bioinformatics Graduate Student
September 2010 - November 2015 (5 years 3 months)
San Diego, California

Joe Gleeson's lab is devoted to exploring the inter-workings of the brain by
studying recessive developmental neural disorders with complex inheritance
patterns, such as mental retardation, brain wiring defects, and epilepsy.

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The lab uses exome sequencing and IPP stem cells to search for novel disease causing variants and study the resultant phenotype. Patients are recruited through collaborations in the Middle East due to the high prevalence of recessive genetic disorders, largely due to a culture of consanguineous marriages.

Academic Connections

Course Instructor

June 2012 - July 2012 (2 months)

UC San Diego Extension

Taught an intensive introductory course in bioinformatics, to academically advanced high school students. The curriculum included introduction to python, intro virology, intro oncology, Sanger and NGS sequencing data, mendelian disorders, and protein structure.

Roche Pharmaceuticals

Bioinformatics Systems Analyst

June 2007 - November 2010 (3 years 6 months)

Support of Virology and Oncology DBA. Built tools for scientists that performed automated analysis of NGS sequencing data, micro arrays, and text-mining data.

Department of Molecular Biology, UCSC

Lab Assistant

January 2007 - June 2007 (6 months)

Santa Cruz, California

Mark Akeson's lab is devoted to exploring nanopore technology and developing nanopores into research tools. Areas of particular interest are using these devices as biosensors or potentially as a rapid sequencing method. This lab has published research showing that nanopores can be used to perform rapid measurement of DNA-protein interactions. I assisted this research by performing a series of wet-bench experiments designed to improvement the experimental parameters of the larger nanopore research effort. The goal was to find new methods of controlling interactions between DNA and enzyme complexes before insertion into a nanopore. Experiments designed to test a variety of polymerases and control activity were run. Lab techniques involved gel-electrophoresis, spectroscopy, and column purification. The results were mixed. Additional time was required to improve control over polymerase activity but data from enzyme characteristics testing eventually led to new nanopore experiments.

Santa Cruz Institute for Particle Physics

Research Assistant

August 2005 - August 2006 (1 year 1 month)

Santa Cruz, California

Hartmut's lab investigates a large number of applied physics questions. I participated in a project investigating a potential cancer-imaging method using accelerated protons. The primary goal was to use a linear accelerator to fire protons at relatively low-speed through a cellular mass. It was hypothesized that changes in proton velocity and direction could be used to determine the location and size denser regions. I provided computational simulation support for this project. I set up a linear accelerator software developed at SLAC and wrote scripts to emulate the real world experiments. Simulated data was then compared to experimental to assist in improving the experiment.

UCSC Engineering Department

Tutor and Reader

August 2004 - December 2004 (5 months)

Santa Cruz, California

After taking a computer science class, the teach asked if I would be available to teach the following years class. I assisted another TA teach a class of 40 students Java and C programming. We helped tutor students, graded programming assignments and lead discussion groups.

Education

UC San Diego

Ph.D, Bioinformatics · (2010 - 2015)

University of California, Santa Cruz

B.S., Bioinformatics · (2003 - 2007)