

BRIAN L. HILL

Curriculum Vitae

◇ brian.l.hill@cs.ucla.edu

EDUCATION

University of California, Los Angeles

2016 - Present

Ph.D. Computer Science

Department of Computer Science

Advisor - Professor Eran Halperin

Oregon State University

2016

B.S. Electrical and Computer Engineering

Department of Electrical Engineering and Computer Science

Minor in Computer Science

PUBLICATIONS

BATMAN: fast and accurate integration of single-cell RNA-Seq datasets via minimum-weight matching

Igor Mandric, Brian L. Hill, Malika K. Freund, Michael Thompson, Eran Halperin; iScience 2020.

Advancing clinical cohort selection with genomics analysis on a distributed platform

Jaclyn M. Smith, Melvin Lathara, Hollis Wright, Brian Hill, Nalini Ganapati, Ganapati Srinivasa, Christopher T. Denny; PLOS ONE 2020.

Benchmarking of computational error-correction methods for next-generation sequencing data

Keith Mitchell, Jaqueline J Brito, Igor Mandric, Qiaozhen Wu, Sergey Knyazev, Sei Chang, Lana S. Martin, Aaron Karlsberg, Ekaterina Gerasimov, Russell Littman, Brian L. Hill, Nicholas C Wu, Harry Taegyun Yang, Kevin Hsieh, Linus Chen, Eli Littman, Taylor Shabani, German Enik, Douglas Yao, Ren Sun, Jan Schroeder, Eleazar Eskin, Alex Zelikovsky, Pavel Skums, Mihai Pop, Serghei Mangul; Genome Biology 2020.

An automated machine learning-based model predicts postoperative mortality using readily-extractable preoperative electronic health record data

Brian L. Hill, Robert Brown, Eilon Gabel, Nadav Rakocz, Christine Lee, Maxime Cannesson, Pierre Baldi, Loes Olde Loohuis, Ruth Johnson, Brandon Jew, Uri Maoz, Aman Mahajan, Sriram Sankararaman, Ira Hofer, Eran Halperin; British Journal of Anaesthesia 2019.

Challenges and recommendations to improve the installability and archival stability of omics computational tools

Serghei Mangul, Thiago Mosqueiro, Richard J. Abdill, Dat Duong, Keith Mitchell, Varuni Sarwal, Brian L. Hill, Jaqueline Brito, Russell Jared Littman, Benjamin Statz, Angela Ka-Mei Lam, Gargi Dayama, Laura Grieneisen, Lana S. Martin, Jonathan Flint, Eleazar Eskin, Ran Blekhman; PLOS Biology 2019.

Systematic benchmarking of omics computational tools

Serghei Mangul, Lana S Martin, Brian L. Hill, Angela Ka-Mei Lam, Margaret Distler, Alex Zelikovsky, Eleazar Eskin, Jonathan Flint; Nature Communications 2019.

TEACHING EXPERIENCE

University of California, Los Angeles

2017 - 2018

Teaching Assistant

Computational Genetics (Spring 2018)

Computer Systems Architecture (Winter 2018)

Introduction to Computer Organization (Fall 2017)

INDUSTRY EXPERIENCE

Omics Data Automation

2016 - 2019

- Full-time summer intern

Intel

2012 - 2016

- Health Strategy & Solutions Group 2013 - 2016
- Heterogeneous Computing Group 2012 - 2013