BRIAN L. HILL

$\label{eq:curiculum} \mbox{ Curriculum Vitae} $$ brian.l.hill@cs.ucla.edu $$ $$ www.brianlhill.info$

EDUCATION

2019 2016
2016
2016 - 2019
2012 - 2016

Tools and Frameworks: Linux, Git, Keras/Tensorflow, Scikit-learn

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)

- 1. Automated identification of clinical features from sparsely annotated 3-dimensional medical imaging Nadav Rakocz, Jeffrey N. Chiang, Muneeswar G. Nittala, Giulia Corradetti, Liran Tiosano, Swetha Velaga, Michael Thompson, Brian L. Hill, Sriram Sankararaman, Jonathan L. Haines, Margaret A. Pericak-Vance, Dwight Stambolian, Srinivas R. Sadda, Eran Halperin; npj Digital Medicine 2021.
- 2. Bladder Cancer Immunotherapy by BCG Is Associated with a Significantly Reduced Risk of Alzheimers Disease and Parkinsons Disease Danielle Klinger, Brian L. Hill, Noam Barda, Eran Halperin, Ofer N. Gofrit, Charles L. Greenblatt, Nadav Rappoport, Michal Linial, Herv Bercovier; Vaccines 2021.
- 3. A machine learning algorithm to increase COVID-19 inpatient diagnostic capacity

David Goodman-Meza, Akos Rudas, Jeffrey N. Chiang, Paul C. Adamson, Joseph Ebinger, Nancy Sun, Patrick Botting, Jennifer A. Fulcher, Faysal G. Saab, Rachel Brook, Eleazar Eskin, Ulzee An, Misagh Kordi, Brandon Jew, Brunilda Balliu, Zeyuan Chen, Brian L. Hill, Elior Rahmani, Eran Halperin, Vladimir Manuel; PLOS ONE 2020.

4. 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.

5. 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.

6. 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.

- 7. 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.
- 8. 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.

- 9. 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.
- 10. Precision medicine and FPGA technology: Challenges and opportunities
 Brian Hill, Jaclyn Smith, Gans Srinivasa, Kemal Sonmez, Ashish Sirasao, Amit Gupta,
 Madhubanti Mukherjee; MWSCAS 2017.