Mitchell Vollger

Postdoctoral Scholar in the Division of Medical Genetics at the University of Washington

Education

Ph.D. in Genome Sciences at University of Washington

Dissertation: Assembly of segmental duplications and their variation in humans

· Advisor: Evan E. Eichler

• Completed the Advanced Data Sience Option

B.S.E. in Computer Science Engineering at Princeton University

At Princeton University in the Department of Computer Science

Student of the Integrated Science Curriculum

• Certificate in Quantitative and Computational Biology

Associate of Arts Degrees at College of the Redwoods

Graduated with Highest Honors

AA in Mathematics

· AA in Science

Sep. 2008 - June 2011

Sep. 2011 - June 2015

Princeton, New Jersey

Sep 2016 - March 2021

Seattle, Washington

Eureka, California

Postdoctoral Experience_

Postdoctoral Scholar in the Division of Medical Genetics

In the lab of Andrew B. Stergachis

April 2022 - Present

University of Washington

Postdoctoral Scholar in the Department of Genome Sciences

In the lab of Evan E. Eichler

March 2021 - April 2022

University of Washington

Funding and Awards_

K99/R00 Pathway to Independence Award

National Institute of General Medical Sciences

Summer 2024 - present

Seattle, Washington

NIH/NHGRI T32 Genome Training Grant

Division of Medical Genetics at University of Washington

Fall 2022 - Fall 2024

Seattle, Washington

BDGN, Big Data in Genomics and Neuroscience

Fall 2017 - Fall 2019

Seattle, Washington

Genome Sciences at University of Washington

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NIH/NHGRI T32 Genome Training Grant

Genome Sciences at University of Washington

Fall 2016 - Fall 2017
Seattle, Washington

Publications

First Author

M. R. Vollger, E. G. Swanson, S. J. Neph, J. Ranchalis, K. M. Munson, C.-H. Ho, A. E. Sedeño-Cortés, W. E. Fondrie, S. C. Bohaczuk, Y. Mao, N. L. Parmalee, B. J. Mallory, W. T. Harvey, Y. Kwon, G. H. Garcia, K. Hoekzema, J. G. Meyer, M. Cicek, E. E. Eichler, W. S. Noble, D. M. Witten, J. T. Bennett, J. P. Ray, A. B. Stergachis, A haplotype-resolved view of human gene regulation (2024), doi: 10.1101/2024.06.14.599122

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 P. R. Consortium, K. M. Munson, A. P. Lewis, K. Hoekzema, G. A. Logsdon, D. Porubsky, B. Paten, K. Harris, P. Hsieh, E.
 E. Eichler, Increased mutation and gene conversion within human segmental duplications. *Nature*. 617, 325–334 (2023)
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M. R. Vollger, P. Kerpedjiev, A. M. Phillippy, E. E. Eichler, StainedGlass: Interactive visualization of massive tandem repeat structures with identity heatmaps. *Bioinformatics* (2022), doi: 10.1093/bioinformatics/btac018

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- Corresponding A. Jha, S. C. Bohaczuk, Y. Mao, J. Ranchalis, B. J. Mallory, A. T. Min, M. O. Hamm, E. Swanson, D. Dubocanin, C. Finkbeiner, T. Li, D. Whittington, W. S. Noble, A. B. Stergachis, M. R. Vollger, DNA-m6A calling and integrated long-read epigenetic and genetic analysis with fibertools. *Genome Research*, gr.279095.124 (2024)
- Collaborative K. L. Bubb, M. O. Hamm, J. K. Min, B. Ramirez-Corona, N. A. Mueth, J. Ranchalis, M. R. Vollger, C. Trapnell, J. T. Cuperus, C. Queitsch, A. B. Stergachis, The regulatory potential of transposable elements in maize (2024), doi: 10.1101/2024.07.10.602892
 - S. C. Bohaczuk, Z. J. Amador, C. Li, B. J. Mallory, E. G. Swanson, J. Ranchalis, <u>M. R. Vollger</u>, K. M. Munson, T. Walsh, M. O. Hamm, Y. Mao, A. Lieber, A. B. Stergachis, Resolving the chromatin impact of mosaic variants with targeted Fiberseq (2024), doi: 10.1101/2024.07.09.602608
 - W.-W. Liao, M. Asri, J. Ebler, D. Doerr, M. Haukness, G. Hickey, S. Lu, J. K. Lucas, J. Monlong, H. J. Abel, S. Buonaiuto, X. H. Chang, H. Cheng, J. Chu, V. Colonna, J. M. Eizenga, X. Feng, C. Fischer, R. S. Fulton, S. Garg, C. Groza, A. Guarracino, W. T. Harvey, S. Heumos, K. Howe, M. Jain, T.-Y. Lu, C. Markello, F. J. Martin, M. W. Mitchell, K. M. Munson, M. N. Mwaniki, A. M. Novak, H. E. Olsen, T. Pesout, D. Porubsky, P. Prins, J. A. Sibbesen, J. Sirén, C. Tomlinson, F. Villani, M. R. Vollger, L. L. Antonacci-Fulton, G. Baid, C. A. Baker, A. Belyaeva, K. Billis, A. Carroll, P.-C. Chang, S. Cody, D. E. Cook, R. M. Cook-Deegan, O. E. Cornejo, M. Diekhans, P. Ebert, S. Fairley, O. Fedrigo, A. L. Felsenfeld, G. Formenti, A. Frankish, Y. Gao, N. A. Garrison, C. G. Giron, R. E. Green, L. Haggerty, K. Hoekzema, T. Hourlier, H. P. Ji, E. E. Kenny, B. A. Koenig, A. Kolesnikov, J. O. Korbel, J. Kordosky, S. Koren, H. Lee, A. P. Lewis, H. Magalh\textasciitide aes, S. Marco-Sola, P. Marijon, A. McCartney, J. McDaniel, J. Mountcastle, M. Nattestad, S. Nurk, N. D. Olson, A. B. Popejoy, D. Puiu, M. Rautiainen, A. A. Regier, A. Rhie, S. Sacco, A. D. Sanders, V. A. Schneider, B. I. Schultz, K. Shafin, M. W. Smith, H. J. Sofia, A. N. A. Tayoun, F. Thibaud-Nissen, F. F. Tricomi, J. Wagner, B. Walenz, J. M. D. Wood, A. V. Zimin, G. Bourque, M. J. P. Chaisson, P. Flicek, A. M. Phillippy, J. M. Zook, E. E. Eichler, D. Haussler, T. Wang, E. D. Jarvis, K. H. Miga, E. Garrison, T. Marschall, I. M. Hall, H. Li, B. Paten, A draft human pangenome reference. Nature. 617, 312–324 (2023)
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Mitchell Vollger Curriculum vitae

- M. Hall, N. F. Hansen, G. A. Hartley, M. Haukness, K. Howe, M. W. Hunkapiller, C. Jain, M. Jain, E. D. Jarvis, P. Kerpedjiev, M. Kirsche, M. Kolmogorov, J. Korlach, M. Kremitzki, H. Li, V. V. Maduro, T. Marschall, A. M. McCartney, J. McDaniel, D. E. Miller, J. C. Mullikin, E. W. Myers, N. D. Olson, B. Paten, P. Peluso, P. A. Pevzner, D. Porubsky, T. Potapova, E. I. Rogaev, J. A. Rosenfeld, S. L. Salzberg, V. A. Schneider, F. J. Sedlazeck, K. Shafin, C. J. Shew, A. Shumate, Y. Sims, A. F. A. Smit, D. C. Soto, I. Sović, J. M. Storer, A. Streets, B. A. Sullivan, F. Thibaud-Nissen, J. Torrance, J. Wagner, B. P. Walenz, A. Wenger, J. M. D. Wood, C. Xiao, S. M. Yan, A. C. Young, S. Zarate, U. Surti, R. C. McCoy, M. Y. Dennis, I. A. Alexandrov, J. L. Gerton, R. J. O'Neill, W. Timp, J. M. Zook, M. C. Schatz, E. E. Eichler, K. H. Miga, A. M. Phillippy, The complete sequence of a human genome. *Science*. 376, 44–53 (2022)
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- F. A. M. Maggiolini, S. Cantsilieris, P. D'Addabbo, M. Manganelli, B. P. Coe, B. L. Dumont, A. D. Sanders, A. W. C. Pang, M. R. Vollger, O. Palumbo, P. Palumbo, M. Accadia, M. Carella, E. E. Eichler, F. Antonacci, Genomic inversions and GOLGA core duplicons underlie disease instability at the 15q25 locus. *PLOS Genetics.* 15, e1008075 (2019)

Presentations

Fiber-seq and tools to understand the regulatory genome in a disease context European Society of Human Genetics (ESHG)

May 2025

Comprehensive diploid genetic and epigenetic profiles with single-molecule precision April 2023 Division of Medical Genetics Seminar Series University of Washington Comprehensive diploid genetic and epigenetic profiles with single-molecule precision Feb 2023 Hollywood, Florida A complete view of segmental duplications and their variation Dec 2022 Genome Sciences 20th anniversary symposium University of Washington Using a complete human reference to explore variation in segmental duplications Oct 2022 Long-Read, Long-Range scientific interest group NHGRI, remote Increased mutation rate and interlocus gene conversion within human segmental duplications Aug 2022 Telomere-to-telomere face-to-face conference University of California Santa Cruz Segmental duplications and their variation in a complete human genome March 2022 UCSC BME departmental seminar series University of California Santa Cruz, remote Segmental duplications and their variation in a complete human genome Oct 2021 NHGRI computational biology seminar series NHGRI, remote A complete view of segmental duplications and their variation Sep 2021 American Society of Human Genetics, Section talk A complete view of segmental duplications and their variation Sep 2020 T2T and HPRC conference University of Washington Improved Assembly of Segmental Duplications Using HiFi Sep 2019 Pacific Biosciences User Group Meeting University of Delaware Posters_ Fibertools: computational methods for chromatin accessibility with long-reads September 2022 Genome Sciences Annual Retreat University of Washington A complete view of segmental duplications and their variation May 2021 Cold Spring Harbor, New York Biology of Genomes Improved Assembly of Human Genomes Using HiFi December 2019 Annual Scientific Meeting, Howard Hughes Medical Institute Chevy Chase, Maryland Resolving segmental duplications using long reads and correlation clustering October 2018 Collaborative Seminar Series, Allen Institute, Fred Hutch, and UW Medicine University of Washington Resolving Segmental Duplications with PSV based Community Detection September 2017/2018 Genome Sciences Annual Retreat, Washington University University of Washington Identifying Multiple Charge States of Peptides in Mass Spectrometry April 2017 NHGRI Annual Meeting Washington University in St. Louis, Missouri **Teaching Experience** Gene discovery and comparative genomics October 2022 Invited Lecutre, Genomics and Proteomics, undergraduate course University of Washington **Introduction to Statistical Genomics** Spring 2022 University of Washington Primary Instructor, Introduction to Statistical Genomics, graduate course Introduction to Computational Molecular Biology Winter 2020 Teaching Assistant, Lead weekly discussion sections, organized and graded assignments, and held weekly office hours University of Washington **Fundamentals of Genetics and Genomics** Summer 2019 Teaching Assistant, Lead weekly discussion sections, organized and graded assignments, and held weekly office hours University of Washington

Programming Languages

Daily Use Rust | Python | R | Snakemake | Bash

As needed C++ | LaTeX | typst

Professional Organizations

2023-Present Somatic Mosaicism Across Human Tissues consortium (SMaHT)

2021-Present American Society of Human Genetics (ASHG)
2020-Present Telomere to Telomere consortium (T2T)

2020-Present Human Pangenome Reference Consortium (HPRC)

References_

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Mitchell Vollger

Curriculum vitae

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Mitchell Vollger Curriculum vitae