

Mitchell R. Vollger

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Assistant Professor, Department of Human Genetics, University of Utah

Education

Ph.D. in Genome Sciences at University of Washington

Dissertation: Assembly of segmental duplications and their variation in humans

Sep. 2016 - Mar. 2021

Seattle, Washington

- Advisor: Evan E. Eichler
- Completed the [Advanced Data Science Option](#)

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

Departments of Computer Science and Quantitative and Computational Biology

Sep. 2011 - June 2015

Princeton, New Jersey

- Student of the [Integrated Science Curriculum](#)
- Certificate in Quantitative and Computational Biology

Associate of Arts Degrees at College of the Redwoods

AA in Mathematics | AA in Science

Sep. 2008 - June 2011

Eureka, California

Positions and Employment

Assistant Professor, Department of Human Genetics

Principal Investigator, Vollger Lab

Jan. 2026 - Present

University of Utah

Postdoctoral Scholar in the Division of Medical Genetics

In the lab of Andrew B. Stergachis

Apr. 2022 - Dec. 2025

University of Washington

Postdoctoral Scholar in the Department of Genome Sciences

In the lab of Evan E. Eichler

Mar. 2021 - Apr. 2022

University of Washington

Funding and Awards

K99/R00 Pathway to Independence Award

National Institute of General Medical Sciences, 1K99GM155552-01

Summer 2024 - Present

University of Washington / University of Utah

NIH/NHGRI T32 Genome Training Grant

Division of Medical Genetics at University of Washington

Fall 2022 - Fall 2024

University of Washington

BDGN, Big Data in Genomics and Neuroscience

Genome Sciences at University of Washington

Fall 2017 - Fall 2019

University of Washington

NIH/NHGRI T32 Genome Training Grant

Genome Sciences at University of Washington

Fall 2016 - Fall 2017

University of Washington

Publications

- [M. R. Vollger](#)[†], E. G. Swanson, S. J. Neph, J. Ranchalis, K. M. Munson, C.-H. Ho, Y. H. H. Cheng, A. E. Sedeno-Cortes, W. E. Fondrie, S. C. Bohaczuk, M. A. Dippel, Y. Mao, N. L. Parmalee, B. J. Mallory, W. T. Harvey, Y. Kwon, G. H. Garcia, K. Hoekzema, J. G. Meyer, ... A. B. Stergachis, Somatic epimutations cap genetic determinism in the human diploid chromatin epigenome. *Cell* (2026) (Accepted in principle), doi: [10.1101/2024.06.14.599122](https://doi.org/10.1101/2024.06.14.599122).
- [M. R. Vollger](#)[†], rustybam: a composable toolkit for alignment analysis and visualization with Saffire (2026), doi: [10.64898/2026.02.16.706142](https://doi.org/10.64898/2026.02.16.706142).
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- E. G. Swanson, Y. Mao, B. J. Mallory, [M. R. Vollger](#), S. C. Bohaczuk, C. B. Oliveira, D. B. Lyon, J. Ranchalis, N. L. Parmalee, B. A. Cohen, J. T. Bennett, A. B. Stergachis, Mapping single-cell diploid chromatin fiber architectures using DAF-seq. *Nature Biotechnology* (2025), doi: [10.1038/s41587-025-02914-3](https://doi.org/10.1038/s41587-025-02914-3).
- Y.-H. H. Cheng, A. E. Sedeño-Cortés, J. E. Ranchalis, K. M. Munson, [M. R. Vollger](#), E. Balton, C. A. Genetti, M. H. Wojcik, A. H. Beggs, M. J. Bamshad, C.-L. Wei, K. M. Dipple, R. D. Kumar, E. E. Blue, G. Jarvik, J. X. Chong, D. M. Witten, A. O'Donnell-Luria, A. B. Stergachis, Long-read transcriptome analysis using IsoRanker for identifying pathogenic variants in Mendelian conditions (2025), doi: [10.1101/2025.11.07.25339764](https://doi.org/10.1101/2025.11.07.25339764).

- M.-H. Sohn, D. Dubocanin, [M. R. Vollger](#), Y. Kwon, A. Minkina, K. M. Munson, S. F. Hart, J. E. Ranchalis, N. L. Parmalee, A. E. Sedeño-Cortés, J. Ou, N. Y. Au, S. Bohaczuk, B. Carroll, C. D. Frazar, W. T. Harvey, K. Hoekzema, M.-F. Huang, C. N. Jacques, ... A. B. Stergachis, A telomere-to-telomere map of somatic mutation burden and functional impact in cancer (2025), doi: [10.1101/2025.10.10.681725](https://doi.org/10.1101/2025.10.10.681725) .
- N. F. Hansen, N. Dwarshuis, H. J. Ji, A. Rhie, H. Loucks, G. A. Logsdon, [M. R. Vollger](#), J. M. Storer, J. Kim, E. Adam, N. Altemose, D. Antipov, M. Asri, S. Barreira, S. C. Bohaczuk, A. V. Bzikadze, S. A. Carioscia, A. Carroll, K.-H. Chao, ... A. M. Phillippy, A complete diploid human genome benchmark for personalized genomics (2025), doi: [10.1101/2025.09.21.677443](https://doi.org/10.1101/2025.09.21.677443) .
- K. L. Bubb, M. O. Hamm, T. W. Tullius, J. K. Min, B. Ramirez-Corona, N. A. Mueth, J. Ranchalis, Y. Mao, E. J. Bergstrom, [M. R. Vollger](#), C. Trapnell, J. T. Cuperus, A. B. Stergachis, C. Queitsch, The regulatory potential of transposable elements in maize. *Nature Plants*. **11**, 1181–1192 (2025), doi: [10.1038/s41477-025-02002-z](https://doi.org/10.1038/s41477-025-02002-z) .
- T. D. Real, P. Hebbbar, D. Yoo, F. Antonacci, I. Pačar, M. Diekhans, G. J. Mikol, O. G. Popoola, B. J. Mallory, [M. R. Vollger](#), P. C. Dishuck, X. Guitart, A. N. Rozanski, K. M. Munson, K. Hoekzema, J. E. Ranchalis, S. J. Neph, A. E. Sedeño-Cortés, B. Paten, ... E. E. Eichler, Genetic diversity and regulatory features of human-specific NOTCH2NL duplications (2025), doi: [10.1101/2025.03.14.643395](https://doi.org/10.1101/2025.03.14.643395) .
- D. Dubocanin, A. Kalygina, J. M. Franklin, C. Chittenden, [M. R. Vollger](#), S. Neph, A. B. Stergachis, N. Altemose, Integrating Single-Molecule Sequencing and Deep Learning to Predict Haplotype-Specific 3D Chromatin Organization in a Mendelian Condition (2025), doi: [10.1101/2025.02.26.640261](https://doi.org/10.1101/2025.02.26.640261) .
- [M. R. Vollger](#), J. Korf, K. C. Eldred, E. Swanson, J. G. Underwood, S. C. Bohaczuk, Y. Mao, Y.-H. H. Cheng, J. Ranchalis, E. E. Blue, U. Schwarze, K. M. Munson, C. T. Saunders, A. M. Wenger, A. Allworth, S. Chanprasert, B. L. Duerden, I. Glass, M. Horike-Pyne, ... A. B. Stergachis, Synchronized long-read genome, methylome, epigenome and transcriptome profiling resolve a Mendelian condition. *Nature Genetics*. **57**, 469–479 (2025), doi: [10.1038/s41588-024-02067-0](https://doi.org/10.1038/s41588-024-02067-0) .
- S. C. Bohaczuk, Z. J. Amador, C. Li, B. J. Mallory, E. G. Swanson, J. Ranchalis, [M. R. Vollger](#), K. M. Munson, T. Walsh, M. O. Hamm, Y. Mao, A. Lieber, A. B. Stergachis, Resolving the chromatin impact of mosaic variants with targeted Fiber-seq (2024), doi: [10.1101/2024.07.09.602608](https://doi.org/10.1101/2024.07.09.602608) .
- 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*. **34**, 1976–1986 (2024), doi: [10.1101/gr.279095.124](https://doi.org/10.1101/gr.279095.124) .
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- [M. R. Vollger](#), P. C. Dishuck, W. T. Harvey, W. S. DeWitt, X. Guitart, M. E. Goldberg, A. N. Rozanski, J. Lucas, M. Asri, H. J. Abel, L. L. Antonacci-Fulton, G. Baid, C. A. Baker, A. Belyaeva, K. Billis, G. Bourque, S. Buonaiuto, A. Carroll, M. J. P. Chaisson, ... E. E. Eichler, Increased mutation and gene conversion within human segmental duplications. *Nature*. **617**, 325–334 (2023), doi: [10.1038/s41586-023-05895-y](https://doi.org/10.1038/s41586-023-05895-y) .
- W. S. DeWitt, L. Zhu, [M. R. Vollger](#), M. E. Goldberg, A. Talenti, A. C. Beichman, K. Harris, mutyper: assigning and summarizing mutation types for analyzing germline mutation spectra. *Journal of Open Source Software*. **8**, 5227 (2023), doi: [10.21105/joss.05227](https://doi.org/10.21105/joss.05227) .
- D. Porubsky, [M. R. Vollger](#), W. T. Harvey, A. N. Rozanski, P. Ebert, G. Hickey, P. Hasenfeld, A. D. Sanders, C. Stober, J. O. Korbel, B. Paten, T. Marschall, E. E. Eichler, Gaps and complex structurally variant loci in phased genome assemblies. *Genome Research*. **33**, 496–510 (2023), doi: [10.1101/gr.277334.122](https://doi.org/10.1101/gr.277334.122) .
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- [M. R. Vollger](#), X. Guitart, P. C. Dishuck, L. Mercuri, W. T. Harvey, A. Gershman, M. Diekhans, A. Sulovari, K. M. Munson, A. P. Lewis, K. Hoekzema, D. Porubsky, R. Li, S. Nurk, S. Koren, K. H. Miga, A. M. Phillippy, W. Timp, M. Ventura, E. E. Eichler, Segmental duplications and their variation in a complete human genome. *Science*. **376** (2022), doi: [10.1126/science.abj6965](https://doi.org/10.1126/science.abj6965).
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- P. Hsieh, V. Dang, [M. R. Vollger](#), Y. Mao, T.-H. Huang, P. C. Dishuck, C. Baker, S. Cantsilieris, A. P. Lewis, K. M. Munson, M. Sorensen, A. E. Welch, J. G. Underwood, E. E. Eichler, Evidence for opposing selective forces operating on human-specific duplicated TCAF genes in Neanderthals and humans. *Nature Communications*. **12** (2021), doi: [10.1038/s41467-021-25435-4](https://doi.org/10.1038/s41467-021-25435-4).
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- P. Hsieh, [M. R. Vollger](#), V. Dang, D. Porubsky, C. Baker, S. Cantsilieris, K. Hoekzema, A. P. Lewis, K. M. Munson, M. Sorensen, Z. N. Kronenberg, S. Murali, B. J. Nelson, G. Chiatante, F. A. M. Maggolini, H. Blanché, J. G. Underwood, F. Antonacci, J.-F. Deleuze, E. E. Eichler, Adaptive archaic introgression of copy number variants and the discovery of previously unknown human genes. *Science*. **366** (2019), doi: [10.1126/science.aax2083](https://doi.org/10.1126/science.aax2083).
- F. A. M. Maggolini, 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), doi: [10.1371/journal.pgen.1008075](https://doi.org/10.1371/journal.pgen.1008075).
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Presentations

Genetic and functional characterization of segmental duplications

Seminar at the Department of Human Genetics

Oct. 2025

University of Utah

Evaluating the genetic drivers of gene regulation heterogeneity across the human pangenome

Human Pangenome Reference Consortium

Oct. 2025

Memphis, Tennessee, United States

Computational tools for epigenetic characterization of the human pangenome

All Hands Call for the Human Pangenome Reference Consortium

Jul. 2025

remote

Fiber-seq and tools to understand the regulatory genome in a disease context European Society of Human Genetics (ESHG)	May 2025 Allianz MiCo in Milan, Italy
Working towards genetic and functional characterization of segmental duplications Seminar at the Department of Biomedical Engineering	Mar. 2025 Johns Hopkins University
Working towards genetic and functional characterization of segmental duplications Seminar at the Department of Genetics, Cell Biology and Development	Feb. 2025 University of Minnesota
Working towards genetic and functional characterization of segmental duplications Seminar at the Department of Human Genetics	Feb. 2025 University of Utah
Computational tools for Fiber-seq and Fiber-seq Inferred Regulatory Elements BBI Long-read Symposium	Oct. 2024 Seattle Children's Research Institute
Tooling for accurately studying the epigenome along the human pangenome reference Human Pangenome Reference Consortium face-to-face conference	Aug. 2024 University of California Santa Cruz
Fiber-seq Inferred Regulatory Elements with diploid T2T genomes Telomere-to-telomere face-to-face conference	Aug. 2024 University of California Santa Cruz
Comprehensive diploid genetic and epigenetic profiles with single-molecule precision Division of Medical Genetics Seminar Series	Apr. 2023 University of Washington
Comprehensive diploid genetic and epigenetic profiles with single-molecule precision AGBT 2023	Feb. 2023 Hollywood, Florida
A complete view of segmental duplications and their variation Genome Sciences 20th anniversary symposium	Dec. 2022 University of Washington
Using a complete human reference to explore variation in segmental duplications Long-Read, Long-Range scientific interest group	Oct. 2022 NHGRI, remote
Increased mutation rate and interlocus gene conversion within human segmental duplications Telomere-to-telomere face-to-face conference	Aug. 2022 University of California Santa Cruz
Segmental duplications and their variation in a complete human genome UCSC BME departmental seminar series	Mar. 2022 University of California Santa Cruz, remote
Segmental duplications and their variation in a complete human genome NHGRI computational biology seminar series	Oct. 2021 NHGRI, remote
A complete view of segmental duplications and their variation American Society of Human Genetics, Section talk	Sep. 2021 remote
A complete view of segmental duplications and their variation T2T and HPRC conference	Sep. 2020 University of Washington
Improved Assembly of Segmental Duplications Using HiFi Pacific Biosciences User Group Meeting	Sep. 2019 University of Delaware

Teaching Experience

Gene discovery and comparative genomics Invited Lecture, Genomics and Proteomics, undergraduate course	Oct. 2022 University of Washington
Introduction to Statistical Genomics Primary Instructor, Introduction to Statistical Genomics, graduate course	Spring 2022 University of Washington
Introduction to Computational Molecular Biology Teaching Assistant, Lead weekly discussion sections, organized and graded assignments, and held office hours	Winter 2020 University of Washington
Fundamentals of Genetics and Genomics Teaching Assistant, Lead weekly discussion sections, organized and graded assignments, and held office hours	Summer 2019 University of Washington

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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