<u>Seeking a postdoctoral researcher to join our genomics lab at Stanford University.</u>
Our lab (https://smontgomlab.github.io/) studies the molecular mechanisms of genetic diseases. We are looking to recruit a postdoctoral researcher interested in leading investigations in these broad research areas:

- **<u>Rare variants in genetic diseases.</u>** Using multi-omics and MPRA approaches, we seek to identify rare variants contributing to a range of pathologies with a specific focus on rare genetic diseases, mental health, and neurodegenerative diseases. Relevant consortia our lab is a part of include GREGoR (http://gregor.stanford.edu), IGVF, dGTEx and the ADSP Functional Genomics Consortium.
- **<u>Gene-by-environment multi-omic studies</u>**. Using bulk and single-cell multi-omics approaches, we seek to understand how different environments impact gene function and contribute to disease risk. We are currently involved in generating extensive human multi-omics data in response to acute exercise and exercise training in the Molecular Transducers of Physical Activity Consortium (https://www.motrpac.org/).

In this role, you will be able to contribute to multiple consortia, train/mentor students, build computational pipelines and reproducible analyses in large-scale datasets, and visualize/present results to various audiences.

<u>Minimum requirements:</u>
- PhD in a field related to genetics/genomics, biocomputing/bioinformatics, or statistics
- Programming experience in UNIX, R and/or Python
- Familiarity with high-performance and/or cloud computing
- Willingness to collaborate and interact with others, evidence of professionalism
- Evidence of prior publication(s) and conference/oral presentations

<u>Preferred qualifications:</u>
- Development of bioinformatics analysis pipelines, workflows (e.g., snakemake), and code version control (e.g., git) tools and/or experience with standard bioinformatic tools (e.g., bedtools, vcftools)
- Statistical analysis experience and/or a working understanding of biological systems
- Commitment to advancing diversity, equity, and inclusion
- Experience as a science mentor
- Experience in *any* of the following: RNA-seq, other functional genomics, single cell approaches, human genetics/genomics, variant calling, multi-omic integration, rare disease, neurodegenerative or neuropsychiatric disease and exercise science

<u>What we offer:</u>
- A firm commitment to life-work balance in an inclusive environment
- Opportunity for intellectual development, growth and leadership
- Personalized mentorship for both academic and industry career trajectories
- Flexible work hours and hybrid / work-from-home opportunity
- Access to a HPC compute cluster and cutting-edge technologies, data, and sequencing equipment
- Opportunities for outreach and advocacy work through Stanford and the departments
- A competitive postdoctoral salary with relocation fees provided. Benefits described here.

If you are interested in joining our lab, please fill out this form: <u>http://tinyurl.com/hnzej33w</u>
<u>Close date is May 31st, 2022</u>

*Stanford is an equal employment opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other characteristic protected by law. Stanford also welcomes applications from others who would bring additional dimensions to the University's research, teaching and clinical missions. **<u>We especially encourage people from backgrounds that are under-represented in science to apply.</u>***