

Data Scientist (Biostatistics)

 Data Science

 Seattle, WA

 Remote (United States)

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About Phenome Health

Are you passionate about health and making a difference?

Phenome Health is a 501(c)(3) non-profit research organization established in 2021 to contribute solutions to major challenges causing a health crisis. Our team, led by internationally recognized visionary scientist Lee Hood, is promoting a radical paradigm change—namely shifting from a reactive system that focuses on treating disease to a proactive system focused on optimizing health. Phenome Health is partnering with research participants to build a disease-agnostic discovery framework. We are leveraging advancements in biotechnologies, digital health, and AI to execute projects that will drive personalized and equitable medicine of the future.

Our headquarters are based in Seattle, Washington with team members distributed across the United States.

About the role

The Phenome Health data science team is a multidisciplinary, inter-institutional research team working in collaboration with other parts of the non-profit organization and external partners. Its goals are to use human data resources (self-generated and public) to understand the biology of wellness and longevity and to develop insights into potential interventions and/or diagnostics that extend healthy aging. Several large, public and private multi-omic datasets are available to the team including a comprehensive in-house deeply phenotyped dataset, the UK Biobank, TwinsUK, and NIH All Of Us. With phenotypic information, and future self-generated human study datasets, these data will be used to define the pathways that are critical to identify disease transitions and extend healthspan and related outcomes. Major emphases include identifying multi-omic signatures that are associated with disease transition and longevity, as well as using systems-oriented methods to identify the major pathways involved. This effort will require creative use of state-of-the-art data integration, harmonization and statistical approaches.

Position Overview: The Data Scientist assists the Phenome Health team in designing, analyzing, visualizing, interpreting and communicating large multi-omic studies. This will include but is not limited to: longitudinal analysis, survival analysis, epidemiologic modeling, Bayesian analysis, Mendelian randomization and causal inference using multi-omic data.

Daily responsibilities include assembling, analyzing, and interpreting omics and phenotype data in support of research objectives.

What you'll do

- Leads data science project(s), and is accountable for meeting established deadlines
- Designs, directs, and evaluates assigned scientific analyses appropriate to project objectives
- Execute assigned scientific analyses appropriate to project objectives
- Utilizes proper strategic design in meeting project goals
- Participates in writing project updates and reports, proposals, scientific articles
- Applies state-of-the-art concepts and technologies

- Able to independently learn and implement new computational methods
- Consults scientific literature to develop knowledge of state-of-the-art methods
- Develops and maintains professional relationships, and collaborates as appropriate to ensure broad exposure to new ideas and concepts
- Publishes and presents papers at scientific meetings and conferences

Qualifications

- Masters degree or higher in Epidemiology, Biostatistics, Mathematics or a related field
- 5+ years of hands-on academic or industry experience in a relevant field
- Attention to detail in handling complex data sets, interacting with collaborators and other analysts
- Experience in analysis in multidimensional biological data, with a benefit for electronic health record experience, and for experience with machine learning
- Excellent interpersonal skills and a strong propensity for collaborative teamwork

Compensation & Benefits

- \$95k to \$130k depending on experience and education
- Competitive Medical, Vision and Dental Insurance plans for employee and dependent
- Basic Life insurance
- Health FSA
- 401K retirement savings plan with employer match
- Orca Pass (public transportation) for Seattle, WA area employees

Applicants must be authorized to work for ANY employer in the U.S. We are unable to sponsor or take over sponsorship of an employment Visa at this time.

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