

We are seeking candidates for a **Postdoctoral Fellow** in the Statistical Genomics Group headed by Dr. Christoph Lippert at the Berlin Institute for Medical Systems Biology.

## Job Description

As a Postdoctoral Fellow in the Statistical Genomics group, you are encouraged to develop a research agenda around quantitative problems in healthcare and biology that are driven by technological advances in sequencing, medical imaging and sensors that take detailed recordings of disease-related traits at different biological scales, from molecules, over cells, tissues, and organs.

Integrated analysis of such diverse data poses many statistical and computational challenges that we address, all the way from the mathematical foundations to applications that we perform in collaborations with biologists and clinicians. As a group, we develop the statistical and computational tools that are needed to model high-dimensional phenotypes as well as their subsequent genetic analysis. Based on machine learning we address the question how to extract and represent high-dimensional disease traits from diverse clinical data sources, including medical images, sensors and sequencing data. Further, we address the statistical questions of how to detect and account for unwanted nuisance variation in such data, and how to perform statistical inference on such high-dimensional data sets.

## Requirements and Background

You should apply if you have obtained a Ph.D. degree (or are close to graduation) in Computer Science, Bioinformatics, Statistics, or a related quantitative discipline with a strong research background in machine learning, signal processing, statistics, computer vision, or medical imaging. As we communicate and perform research in English, no prior knowledge of German is needed.

## You can expect

- to perform research at a welcoming and internationally renowned institute that is embedded in Berlin's thriving academic environment
- to participate in a wide array of seminars, conferences, retreats, workshops, career-development courses, and social activities
- to live in a cosmopolitan city with rich cultural offerings
- the full support from the PI to carve out your research agenda
- a competitive benefits package with pay scale grouping commensurate to your duties and personal experience up to Entgeltgruppe 14 TVÖD Bund

## How to apply

Please send the following information combined into a single file to [jobs@mdc-berlin.de](mailto:jobs@mdc-berlin.de)

- a statement of your research interests
- curriculum vitae with names and contact information of two academic referees
- copy of your Ph.D. degree certificate and transcript

As we seek to increase the number of women in computational disciplines, we explicitly encourage women to apply. We are an equal opportunity employer and value diversity at our institution.

THE DEADLINE FOR COMPLETE APPLICATIONS IS NOVEMBER 30, 2017.

Interviews are expected to take place in December 2017 and January 2018.

If you have questions don't hesitate to write to [christoph.lippert@mdc-berlin.de](mailto:christoph.lippert@mdc-berlin.de)