

Opportunity: Research Statistician/Bioinformatician in Epigenomics at the Icahn School of Medicine at Mount Sinai, New York City

The Haghghi laboratory at Mount Sinai studies the epigenetic profile of human brain development and its emerging role in gene regulation, as well as its fundamental importance for our understanding of normal and pathological neuronal function. Next generation sequencing technologies now allow a global view of whole genome epigenetic profiles. Studies involve bioinformatic analysis of data from whole genome DNA methylation profiling via BS-seq to detect differentially methylated regions associated with disease and their potential function through genomic data mining. This interdisciplinary group offers an excellent environment to uncover new fundamental principles and regulatory mechanisms in this emerging area of genome biology.

RESPONSIBILITIES:

Positions are available for Master or PhD level candidates with degrees in Statistics, Biostatistics, Bioinformatics, Computational Biology or other Quantitative fields who are interested in genetic and epigenetic research. The research group is highly multi-disciplinary. The successful candidate must have experience in programming and is preferred to be familiar with high-throughput analysis of biological data. Under the guidance of Dr. Fatemeh Haghghi (epigeneticist) and Dr. Yongchao Ge (statistician), this position involves integration of large-scale data sets, design and implementation of data processing pipelines, and analyses of genomic and epigenomic data.

SKILLS:

- A strong quantitative background in computing, with a demonstrated ability to design and implement algorithms in working code.
- Coursework and practical experience in applying statistical and/or data mining approaches to complex and noisy biological data.
- Programming experience in a UNIX/Linux environment using programming languages such as R and Bioconductor.
- Experience in high-throughput data analysis and familiarity with widely used genomic databases and software.
- Excellent communication and teamwork skills to take advantage of the highly collaborative environment, adaptability and willingness to contribute to the overall goals of the research.

SALARY & BENEFITS: Commensurate with experience

HOW TO APPLY:

Applicants should send a curriculum vitae/resume and provide contact information for references.

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