



Icahn School of Medicine at Mount Sinai

Description:

The Institute of Healthcare Delivery Science (I-HDS; <https://icahn.mssm.edu/research/institute-health-care-delivery>) is an innovative and trans-disciplinary research institute within the Department of Population Health Science and Policy at the Icahn School of Medicine at Mount Sinai. Its mission is to develop, analyze, and disseminate clinical evidence toward improvements in the quality, safety, outcomes and efficiency of care delivered in the Mount Sinai Health System, an integrated health care system now encompassing seven hospitals within New York City.

I-HDS is currently seeking a Master's level Biostatistician for working closely with I-HDS faculty which includes biostatisticians, epidemiologist, decision scientists, and informaticists. This position will be mentored by Dr. Xiaoyu Song (<https://sites.google.com/view/xiaoyu-song/home>) and embedded in an interdisciplinary team of clinicians, wet lab scientists, statistical geneticists and computational biologists. The appointed researcher will be part of the Clinical Proteomic Tumor Analysis Consortium (CPTAC) and perform integrative analysis of multiple -omics data (genomics, epigenomics, transcriptomics and proteomics) with clinical data for multiple cancer types. The appointed researcher will also analyze data from genetics, bulk tissue, single-cell and spatial transcriptomics for cancer and Alzheimer's disease. The position will be part of a highly productive research team, submitting grant proposals in collaboration with world-renowned scientists, developing statistical methods, analyzing data, and generating manuscripts for publication.

I-HDS provides Master's level Biostatisticians excellent opportunities to develop professionally, which involves strong mentorship and participation/recognition in disseminating research findings through scientific papers and national and international conferences.

Duties and Responsibilities:

- Manage and analyze -omic data on local and cloud computers.
- Perform simulation studies.
- In case of methodological challenges, candidate need to be able to educate her-/himself using methodological literature and senior staff.
- Write article paragraphs to clearly document the performed analyses.
- The ability and motivation for writing manuscripts are preferred but not required.

Minimum Qualifications:

- Master's degree in Biostatistics or a related discipline (such as Statistics, Quantitative Genetics, Computational Biology, Bioinformatics and Epidemiology).

- Excellent computer skills are required including experience with programming in SAS, R and/or python.
- A good understanding with statistical concepts and models.
- Proficiency with Microsoft Office (Word, Excel, PowerPoint).
- Candidates must have excellent written and communication skills in English and must be able to work independently, under minimal supervision, and as part of a team.

Preferred Qualifications:

- Two or more years of experience as a statistical programmer or analyst.
- Previous research experience with -omic data is a plus.
- Previous experience with cloud computing is a plus.
- Exposure to machine- and deep- learning is a plus.

To apply for this position please send your curriculum vitae and a cover letter detailing your experience and interest to **Dr. Xiaoyu Song** at xiaoyu.song@mountsinai.org.

Mount Sinai Medical Center is an equal opportunity/affirmative action employer. We recognize the power and importance of a diverse employee population and strongly encourage applicants with various experiences and backgrounds. Mount Sinai Medical Center--An EEO/AA-D/V Employer.