DEPARTMENT OF BIOSTATISTICS AND BIOINFORMATICS

Open Rank (Assistant/Associate/Full Professor) – Machine Learning

The Department of Biostatistics and Bioinformatics (B&B) at Duke University is conducting a search for candidates for open-rank faculty positions. B&B is an integral component of one of the nation’s foremost medical research enterprises. The department currently has approximately 55 faculty members collaborating closely with both clinical and basic science investigators.

The faculty statistician will work with the Duke Clinical Research Institute on one or more of a number of large initiatives, both federally and industry supported, that are in need of statistical leadership. In addition to general statistical experience, the ideal candidate will have expertise in the following areas: development and application of machine learning techniques to risk prediction and statistical methodology for analysis of epidemiological data including electronic health records.

Working closely with medical colleagues, the candidate will:
- Lead the statistical development and analyses for a variety of studies.
- Participate in strategy sessions for designing and implementing clinical studies.
- Develop novel statistical and machine learning approaches for:
  - construction and evaluation of prognostic models
  - evaluation of important factors and factor clusters related to risk of disease
  - epidemiological studies in disease prevention or control
- Take a major role in applications for external funding, either as a Principal Investigator or as a co-Investigator.
- Upon completion of experiments and analyses, actively participate and collaborate in preparation of scientific publications based on the results and presentations of findings at local, national, and international meetings.
- Disseminate the information on these approaches through presentations at major statistical meetings and publications in major statistical and clinical journals.
- Interface with other statisticians, machine learning experts and computational biologists from the Duke Department of Biostatistics, the Duke Clinical Research Institute, Duke University Health System and external public and private entities.

Requirements:
- A PhD degree in biostatistics, bioinformatics or a related field
- Experience in development and application of machine learning methodologies
- Experience as a collaborating statistician on a variety of study designs
- Professional knowledge of biomedical research
Experience in statistical software/programming
Highly self-motivated individual, enthusiastic about scientific discovery and able to collaborate closely and effectively with other members of a research team
Excellent communication skills (verbal, written and presentation)

For more information about the Department of Biostatistics and Bioinformatics, please visit our website: http://www.biostat.duke.edu.

Interested applicants should submit application materials (cover letter, CV, statement of research accomplishments/interests and ask three references to submit letters of recommendation for this job posting on AcademicJobsOnline at https://academicjobsonline.org/ajo/jobs/7474. Completed applications will be reviewed on an ongoing basis until position is filled.

Duke University is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual’s age, color, disability, genetic information, gender, gender identity, national origin, race, religion, sexual orientation, or veteran status.

Location: Durham, North Carolina