University of Texas MD Anderson Cancer Center: Postdoctoral Fellow

The Department of Biostatistics at The University of Texas MD Anderson Cancer Center has postdoctoral positions open for computational statistics with applications in biostatistics & bioinformatics. The postdoctoral fellows will work under the supervision of Dr. Jeffrey S. Morris. The primary research focus will be on developing novel statistical and computational methodology for functional and image data analysis, with a special focus on complex, high-dimensional functions and images. One specific project of interest is Bayesian methods for LC/MS proteomics data, combining biological knowledge and functional data modeling techniques using fast approximate Bayesian computational procedures. Besides this specific projects, other application-driven methodological research could be done, with some other application areas including event-related potentials (ERP), diffusion MRI methods such as DTI/MAP-MRI, functional data on the sphere and multivariate real-time time series from glaucoma studies, and various types of genomics data including copy number, methylation, miRNA, ncRNA, microarray, RNAseq, and proteomics data with corresponding clinical outcomes collected from large numbers of colon cancer patients that can be modeled in an integrated fashion. We have a working group that is doing deep characterization of newly established molecular subtypes of colon cancer (Guinney et al. 2015 Nature Medicine) that involves many potential projects involving data integration that we hope will lead to new precision therapy strategies.

We seek a highly motivated individual with a Ph.D. degree in statistics/biostatistics or related quantitative fields. Must have strong methodology training in statistics/biostatistics; strong programming skills, in particular R/Matlab and possibly one lower level computer language such as C or Fortran; interest in statistical methodology research. Interest or background in neuroimaging, bioinformatics, genomics, or proteomics is a plus. Expertise or skills in any of the following areas are desirable: analysis of high-dimensional data, Bayesian MCMC computations, approximate Bayesian computational methods, Variable selection and sparsity priors, linear models, nonparametric regression, spatio-temporal data, multivariate techniques, functional data analysis, image data.

Salary Range: $65,000 USD/year


Web Site: [www.mdanderson.org/departments/biostats](http://www.mdanderson.org/departments/biostats)

Application Address: Interested applicants should send a cover letter and CV and research statement (with three references) to: pcunning@mdanderson.org and jefmorris@mdanderson.org (Subject line: Morris postdoc)

Application Deadline: Consideration of applications will begin immediately, and continue until positions are filled.