Postdoctoral fellow, The University of Texas MD Anderson Cancer Center; Jeffrey S. Morris

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http://www.biometricsociety.net/2015/09/26/postdoctoral-fellow-the-university-of-texas-md-anderson-cancer-center-jeffrey-s-morris-2/

Company Information: http://www.mdanderson.org/

Position Title: Postdoctoral Fellow Reference: Morris15

Duties & Responsibilities: 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. Two specific projects include (1) Bayesian models for fMRI data from a smoking cessation study, including integrated modeling approaches to detect activated voxels while carefully accounting for complex spatial, temporal, and multi-level correlation structures and Bayesian methods for multi-level graphical models; (2) Bayesian methods for LC/MS proteomics data, combining biological knowledge and functional data modeling techniques using fast approximate Bayesian computational procedures. Besides these 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.

Position Qualifications: 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.

The University of Texas MD Anderson Cancer Center is an equal opportunity employer and does not discriminate on the basis of race, color, national origin, gender, sexual orientation, age, religion,

disability, or veteran status except where such discrimination is required by law. All positions are security sensitive and subject to examination of criminal history record information. Smoke-free and drug-free work environment.

Salary Range: $65,000 USD/year

Benefits:

http://www.mdanderson.org/education-and-research/education-and-training/schools-and-programs/research-training/programs-and-courses/postdoctoral-research-programs/benefits/index.html

Web Site: http://www.mdanderson.org/departments/biostats/

Application Address: Interested applicants should send a cover letter and CV and research statment (with three references) to: pcunning@mdanderson.org andjefmorris@mdanderson.org (Subject line: Morris postdoc) Application Deadline: Consideration of applications will begin immediately, and continue until positions are filled.

Jeffrey S. Morris

Professor and Deputy Chair

Department of Biostatistics

Division of Quantitative Sciences

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