Postdoctoral Associates in Bayesian & High-Dimensional Statistics

Duke University Department of Statistical Science has multiple Postdoctoral Associate positions to work with Professors David Dunson and Amy Herring in developing novel statistical methods for high-dimensional, complex and/or structured data. A particular focus is on inferring latent structure (e.g., clusters) in data, while characterizing uncertainty. Motivating applications include ecology studies of biodiversity, environmental health, infectious disease subtyping, and neuroscience. A particular focus is on developing fundamentally new classes of statistical models, along with associated theory support and efficient computational algorithm development, directly motivated by scientific and medical applications. Research will ideally lead to not only publications in leading statistical journals but also practical algorithms and corresponding code that can be used by scientists in other fields. Ideal candidates will be finishing up a PhD in statistics, mathematics or a closely related field with rigorous technical training and background combined with a strong publication record and proven abilities in applied-driven methods development. Interest and experience in analyzing large audio and image datasets are a plus, as are experience in complex Bayesian modeling and in successful collaboration with researchers outside statistics.

The positions can start anytime and review of applications will start immediately. Teaching opportunities will be available to interested and qualified candidates. Please submit a CV, brief letter of interest and names of 3 or more references to https://academicjobsonline.org/ajo/jobs/17466.

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Duke aspires to create a community built on collaboration, innovation, creativity, and belonging. Our collective success depends on the robust exchange of ideas—an exchange that is best when the rich diversity of our perspectives, backgrounds, and experiences flourishes. To achieve this exchange, it is essential that all members of the community feel secure and welcome, that the contributions of all individuals are respected, and that all voices are heard. All members of our community have a responsibility to uphold these values.