Post-doctoral fellowship in biostatistics at NTNU, Norway

(this is a position in my group, and is flexible with regard to what to work on - I mainly want to find someone good. Feel free to contact me if you want more details)

Post-doctoral fellowship in biostatistics

The Faculty of Information Technology and Electrical Engineering at the Norwegian University of Science and Technology (NTNU) invites applications for a three-year post-doctoral position affiliated with the Department of Mathematical Sciences and the Centre for Biodiversity Dynamics.


Information about the department and centre

The Department of Mathematical Sciences has 35 full professors, 19 associate professors and 4 assistant professors. In addition, there are 2 adjunct professors, 6 adjunct associate professors, about 20 postdoctoral fellows and about 60 doctoral students. There are 10 women in tenured positions. The department has five research groups: algebra, analysis, differential equations and numerical analysis, geometry and topology, and statistics.

Centre for Biodiversity (CBD) is a Centre of Excellence (SFF), funded by the Research Council of Norway for the period 2013-2023. The research at CBD is cross-disciplinary in the interface between biology and mathematical sciences, and is divided into three research areas: population ecology, evolutionary biology and community dynamics. The position will be located in the research area for evolutionary biology, but interactions with researchers in other research areas are welcomed.

Further information is available at: [http://www.ntnu.edu/cbd](http://www.ntnu.edu/cbd).

Job description

The position is open to researchers holding a PhD in statistics, or an equivalent subject. We are looking for a post-doctoral researcher to work on the development of statistical analyses of the distributions and dynamics of species and communities. There are several potential projects that could be tackled in this area:
Continuing current work extending distribution models based on point processes
Development of distribution models for multiple species, incorporating sampling models
Development of factor analysis models in INLA, as a precursor to exploring community
dynamics

Other projects in the same area can also be suggested. The methodological development
should be linked to investigation of ecological questions (e.g. predicting the responses of
species and communities to climate change).

The successful applicant will be interested in applying modern statistical modelling methods to
ectological problems. Ideally, they will have experience with Bayesian approaches, and will be
able to implement them in a way that is flexible enough that the tools can be used in a variety
of projects, e.g. through developing R packages.

The position will initially be for three years, with the possibility to extend it by a further year.

Application requirements

The application should contain:
   A short research plan (maximum 3 pages)
   CV including a full list of publications with bibliographical references
   Testimonials and certificates
   Other documents which the applicant finds relevant

Incomplete applications will not be considered.

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