

## **Postdoctoral fellowship position in statistical modeling and analysis of microbial communities**

A position is immediately available to work on a collaborative project between researchers at Dalhousie University (Dr. Joseph P. Bielawski & Dr. Hong Gu, Dept. of Mathematics & Statistics) and the University of Montreal (Dr. B. Jesse Shapiro, Dept. of Biological Sciences). The project is part of a large-scale research initiative, ATRAPP, funded by Genome Canada and focused on genomic solutions to the challenge of assessing, predicting and preventing harmful toxic blooms.

The successful candidate will develop novel statistical models for analyzing the structure and metabolic interactions of complex microbial communities based on amplicon data and metagenomic data. Candidates with skills in Bayesian modelling, machine learning and/or time-series analysis would be a better fit for the position.

Qualified applicants must have a Ph.D. in statistics, applied mathematics, computer science, bioinformatics, or a related field in computational biology. A strong background in statistics, and proficiency with scripting and programming languages in one or more of R, python, perl, C/C++, BUGS or Stan is preferred.

This position is based at Dalhousie University (Halifax, NS). The recipient will join the Centre for Genomics and Evolutionary Bioinformatics (CGEB), which is a vibrant interdisciplinary research environment at Dalhousie University (<http://cgeb.dal.ca>). The recipient will also have the opportunity to visit the University of Montreal to interact with a diverse group of biologists and computational biologists.

Start date: Review of applications will begin immediately and continue until the position is filled. The start date is negotiable. Applications will be reviewed as they are received. We thank all applicants, however, only selected candidates will be contacted. Interested parties should forward a cover letter, cv, statement of research interests, and a sample of recent writing (article, report or other publication) as well as contact information for 3 references to:

Joseph P. Bielawski  
Department of Biology  
Department of Mathematics and Statistics  
Dalhousie University  
P.O. Box 15000  
Halifax, NS, Canada B3H 4R2  
(or) email to [j.bielawski@dal.ca](mailto:j.bielawski@dal.ca)