

Postdoctoral fellow in machine learning/computational microbiology at Harvard Medical School

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<http://www.biometricsociety.net/2015/02/27/postdoctoral-fellow-in-machine-learningcomputational-microbiology-at-harvard-medical-school/>

Machine learning/computational biology postdoctoral fellows needed immediately to work in the Center for Clinical and Translational Metagenomics at Harvard Medical School in the research group of Dr. Georg Gerber (<http://gerber.bwh.harvard.edu>). The successful applicant will develop and apply novel statistical/machine learning methods to:

- Infer dynamic behaviors of the microbiota in human subjects and experimental animal systems
- Infer microbe-microbe and host-microbe interaction networks in natural and synthetic biology systems
- Predict host phenotypes, including disease status in patients, from static or longitudinal microbiome and host immune system data

Qualifications:

- PhD in computer science, applied mathematics, statistics, or other highly quantitative discipline from top institution
- Previous experience performing high-quality machine learning/statistical research using Bayesian methods
- Strong mathematical abilities with track record creating novel models and inference algorithms
- Some previous experience modeling biological systems (microbiome experience desirable, but not required)
- Experience implementing and running algorithms in high-performance parallel computing environments
- Excellent publication track record
- Excellent ability to communicate complex ideas and work on multidisciplinary teams with others not versed in machine learning/statistical methods

Applications will be accepted until the position is filled, although priority will be given to applications received by April 15, 2015.

Send cover letter and CV to ggerber@partners.org

Applications without a cover letter responsive to this posting will not be considered.

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