Postdoctoral Fellow: Computation/Single-molecule Biophysics

The labs of Jeff Gelles and Douglas Theobald at Brandeis University (Boston, Massachusetts Metro area) have postdoctoral positions available as part of a new interdisciplinary research project just funded (in August 2018) by the U.S. National Institutes of Health.

The project is to develop, characterize, and implement new computational methods using Bayesian image classification, Markov chain Monte Carlo, and other statistics-based methods, to deduce kinetic mechanisms of biochemical processes from multi-wavelength single-molecule fluorescence microscopy images.

The positions require a strong background in computation, with a Ph.D. in Biophysics, Physics, Statistics, Computer Science, Biomedical Engineering, or a related field. Recent (or soon-to-be) graduates are encouraged to apply. Previous experience in biophysics or biochemistry would be helpful but is not required; the positions can be structured to provide training (including relevant experimental work) to individuals interested in gaining experience in those areas.

To apply, please send your curriculum vitae (including a list of your publications) and a cover letter that includes: 1) the names of three mentors familiar with your scientific abilities who can provide letters of recommendation, 2) a description of your prior experience with projects in scientific computation, and 3) a statement of your scientific interests and future career plans.

Jeff Gelles (gelles@brandeis.edu)

Douglas Theobald (dtheobald@brandeis.edu)