

The University of Vermont

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Subject: Post-doctoral Fellowship Positions (2) starting January 2019

Dear Colleagues,

I am currently accepting applications for 2 post-doctoral fellowships (NIH-NRSA), **starting as early as January 2019**, within an exciting new training program on the application of Big Data methods to large-scale, multi-modal (neuroimaging, genetic, psychometric) datasets, in the context of addiction research. These positions are **renewable for up to 3 years**.

Stipends will be approx. \$49,000, depending on previous post-doctoral experience (0-2 years allowable).

Selected candidates will be based in the University of Vermont Department of Psychiatry, and may choose a mentor from a number of participating faculty during the interview process. In addition to the Department of Psychiatry, selected candidates will have the opportunity to interact and collaborate with faculty across a broad range of departments, within several different colleges at UVM. These include Cellular, Molecular, and Biomedical Sciences, Experimental Psychology, Clinical Psychology, as well as the Departments of Mathematics and Statistics, and Computer Science. Trainees will also participate in activities of the [Vermont Complex Systems Center](#), and will have supercomputing capability through the [Vermont Advanced Computing Core](#). Trainees will have direct access to, and be able to harness local expertise with large neuroimaging datasets including [IMAGEN](#), [ENIGMA-Addiction](#), and [The Adolescent Brain Cognitive Development \(ABCD\) Study](#). Candidates will also have the opportunity to interact with collaborators at the University of California, San Diego, including Anders Dale and Terry Jernigan. This is a far-reaching and truly interdisciplinary opportunity for selected candidates to receive state-of-the-art training in the application of machine-learning methodologies to the largest existing neuroimaging datasets.

Candidates must have completed doctoral training in psychology, neuroscience, bioinformatics, or a related discipline, and have a record of research in genetics or neuroimaging. Programming experience (MATLAB, Python, R, etc.) will be highly valuable, but is not absolutely required as a prerequisite, (though interest in learning to program is an absolute must). Candidates must also demonstrate some basic mathematical and statistical competence, and show interest in expanding their knowledge in this area. Trainees will be selected on the basis of academic record, interviews, and references, and **must be U.S. citizens, noncitizen nationals, or lawfully admitted for permanent residence at the time of appointment**.

As a Post-Doctoral researcher, the candidate will be responsible for neuroimaging and/or genetic data analysis in the context of a project designed by the candidate themselves in collaboration with their chosen mentor. The candidate will be expected to prepare manuscript(s) on this project for publication. Additional responsibilities will include:

- Completing coursework (1 course/semester) for the [Certificate of Graduate Study in Complex Systems](#).
- Attending lab meetings (1/week), journal clubs (1/week), and a program-specific seminar.
- Gaining experience designing experiments and collecting data.
- Preparing a grant application at the conclusion of the training program.

This training program will be demanding, invigorating, hopefully enlightening, and career-shaping. Come join us in Vermont for an exciting adventure! Please contact Hugh.Garavan@uvm.edu and Nicholas.Allgaier@uvm.edu for informal enquiries.