

# Liming Liang

## Positions

### Ongoing search

#### Postdoctoral Opportunities in Statistical Genetics and Genetic Epidemiology

##### Description:

We are actively hiring for two postdoctoral fellow positions (3-4 years) working for methods and applications using large scale biobanks and longitudinal cohorts. Applications interested in statistical/computational method development or applied research are both welcome to apply.

Depending on background experience and research interest, the fellows will have ample opportunities to work on large scale multi-omics datasets, including metabolomics, GWAS, DNA methylation, microbiome, and expression data, for cardio-metabolic diseases and traits, asthma and allergy traits, Age-Related Macular Degeneration (AMD), IgA nephropathy (IgAN) and cancers. These resources are also available to motivate and evaluate newly developed computational methods for complex diseases broadly.

In particular, we are actively working on two prospective cohorts from baby to young adulthood with multi-omics datasets available or soon to be available by the end of 2019. One cohort for overweight and obesity outcome and the other for asthma related traits. The fellows will also have the opportunity to work on GWAS and tissue specific metabolomics data for Age-Related Macular Degeneration (AMD) and genome-wide DNA methylation data for IgAN. Through public repositories and collaboration, we are currently analyzing large scale GWAS data from UK Biobank (n=500k), Biobank Japan (n=180K), China Kadoorie Biobank (n=100K) and Million Veteran Program or MVP (n~400K and more to come), plus GWAS in several longitudinal cohorts at Harvard, including the Nurses' Health Studies I and II, and Health Professionals' Follow-up Study in the US (NHS/HPFS;

followed up for 22 years, total GWAS n~40K).

The postdoc fellows would have ample opportunities to develop methods or use creative ideas to analyze these data for cross population genetic effect, shared genetics among multiple phenotypes, GxE interaction and their clinical utilities in longitudinal cohorts. They will also have the opportunities to collaborate with many excellent people here.

The fellows will work closely with Dr. Liang, with other quantitative Ph.D's in his group and the [Program in Genetic Epidemiology and Statistical Genetics](#), and with collaborators at HSPH, HMS and the Broad Institute, JHU and the world. Fellows will be mentored to facilitate transition to independent research careers by emphasizing acquisition skills of analysis, writing, grant application, and other research and career advancement. Review of applications begins immediately.

### **Qualifications:**

Applicants should have a doctoral degree in Statistics/Biostatistics, Epidemiology, Bioinformatics, Computer Science, Human Genetics or other relevant discipline with strong quantitative research background; practical experience working with large scale genetic data sets, developing new methods, and producing high-quality published work, are desirable.

### **Additional Information:**

Please submit a brief statement of interest, CV, contact information for at least 3 references, and one sample publication by email to Liming Liang, [liliang@hsph.harvard.edu](mailto:liliang@hsph.harvard.edu). Address: Department of Epidemiology and Department of Biostatistics, Harvard School of Public Health, Building 2, Room 207, 655 Huntington Ave, Boston, Massachusetts 02115. Phone: 617.432.5896.

HSPH is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.