Open position:

Postdoctoral researcher to work at the intersection of large-scale field experiments and scalable machine learning and statistics. (1 year, renewable)

PIs:

David Blei (Statistics, Computer Science) and Don Green (Political Science)

Details:

We are looking for a postdoctoral researcher to help develop new methodology at the interface of scalable machine learning (ML) and field experimentation in the social sciences. The aim of this collaboration is to explore ways that innovative research design, modeling, and machine learning methods can advance the frontiers of knowledge in policy-relevant domains.

A qualified candidate must have experience and expertise in several of the following:

-   Graphical models and probabilistic machine learning
-   Approximate Bayesian inference
-   Causal inference
-   Experimental design and analysis, especially for field contexts where noncompliance, spillovers, attrition may jeopardize unbiased inference

The expectations of the candidate are:

-   Work closely with Blei and Green on novel methodology and applications
-   Organize a weekly research group on ML for field experimentation
-   Help develop teaching materials for a graduate lecture course, to be taught by Blei and Green in Spring 2024, on ML for field experimentation.

To apply, please send your CV and arrange to have two reference letters sent to david.blei@columbia.edu and dpg2110@columbia.edu.