Assignment to the University of Certain Inventions, Discoveries and Associated Technologies

John H. Coatsworth Provost Columbia University 205 Low Memorial Library 535 West 116th Street New York, New York 10027

Dear Dr. Coatsworth:

As a condition of my appointment or continued appointment by Columbia University and in accordance with the University's Statement of Policy on Proprietary Rights in the Intellectual Products of Faculty Activity ("IP Policy"), I agree to report promptly to Columbia Technology Ventures any discovery, invention or algorithm that is or may be patentable, together with any supporting technology resulting primarily from the use of Columbia's facilities or from my activities while engaged in Columbia's service ("Inventions"). I further agree to assign, and do hereby assign, to Columbia all my rights, title, and interest in any Inventions and agree to render such assistance as Columbia may reasonably request to obtain patents and develop the commercial value of such Inventions.

I understand that I will share in any revenues from such Inventions in accordance with the IP Policy, as it may be amended from time to time.

Signature: YI YIN

Print Name: YI YIN

Department: Institute for Social and Economic Research and Policy

Date: 2/15/2019

Very truly yours,