A Big Data Approach to Understanding American Growth

Closed to further applications

Faculty Member: Costas Arkolakis

Proposal Description:

Professor Costas Arkolakis in Economics Department at Yale University and PhD Candidate Sun Kyoung Lee in Economics Department at Columbia University are seeking a FULL-TIME research assistant for 1 year, beginning as soon as possible (start date and duration of work periods are both negotiable). We work on a number of projects related to spatial economics, economic history, using a big data approach. We are looking for post-undergraduate candidates who intend to pursue a PhD in economics or a related field.

Candidates with strong backgrounds in computer science (especially Python language and the application of Machine Learning) or economics or statistics or applied mathematics with a focus of empirical work will find this project engaging. Daily tasks may include data analysis, writing programs and reviewing, designing and revising the programs working on theoretical problems. RAs support the project with quantitative analysis, documentation and data descriptions, and programming.

Further information for the relevant research program, please refer to the following webpages:

- https://www.nsf.gov/awardsearch/showAward?AWD_ID=1831524&HistoricalAward...

Requisite Skills and Qualifications:

We are looking for people who can help us in the areas listed below. The strongest applications include samples of prior work or other documentation demonstrating experience or aptitude in these areas. In particular, applicants should demonstrate strong aptitude through transcripts, prior work experience and description of the work that she/he has done.

Python is a must
Statistical programming: STATA, R, SAS or similar is required
The work will primarily use LINUX, so exposure of Linux is strongly recommended, but training can be provided if needed
Exposure/knowledge of Machine Learning is a plus, but not required
Geographic Information System (GIS) software proficiency is a plus, but not required
General proficiency in Computer Science such as C, Java
(Computer Science major is strongly encouraged to apply)
Knowledge of basic microeconomics, macroeconomics, econometrics is a plus but is not required.
Foreign language such as proficiency in German is a plus, but not required

Project Type: Economics Predoctoral RA
Project Type Year: 2019 Economics Predoctoral Projects

Source URL: https://economics.yale.edu/tobin-center/2018/big-data-approach-understanding-american-growth