

## **Proposal: Trade and the Topography of the Spatial Economy**

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We develop a new framework to determine the spatial distribution of economic activity. The equilibrium is characterized by a simple set of differential equations which govern how economic activity varies across space. We study the geography of the surface using data on trade barriers and detailed information on economic activity across space. Finally, we study changes in this geography affect the spatial distribution of wages and population.

The work entails collecting various datasets on spatial economic activity, organizing the data and performing preliminary statistical analysis. It requires knowledge of STATA software to handle these data and also good knowledge of excel. The undergraduate student will also be asked to familiarize himself with the theory which requires basic knowledge of the theory of differential equations. "