

# Ahmed Sadek Yousuf

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## Education

University of Arkansas	FAYETTEVILLE, AR, USA
PhD Economics	2016 – 2021
Job Market Paper: Assessing Dynamics between geocoded World Bank Aid Allocation, Economic Activity (proxied by satellite recorded night light emissions) and Conflict Intensity in Sub Saharan Africa using a Spatially augmented P-VAR (Panel Vector Autoregression) methodology.	
<b>Thesis Supervisor :</b> Dr. Andrea Civelli.	
University of Arkansas	FAYETTEVILLE, AR, USA
MA Economics	2016 – 2018
University of Nottingham	NOTTINGHAM, UK
MSc Economics and Econometrics	2011 – 2012
Thesis: Analyzing Impact of Health Sector specific foreign aid on infant and child mortality rates in the world in primarily a dynamic panel framework, using both conventional Instrumental Variable and System GMM estimation methods.	
North South University	DHAKA, BANGLADESH
BSc Economics with Minor in Finance	2007 – 2011

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## Research Interests

Spatial Econometrics & Economics; Applied Microeconomics; Foreign Aid Effectiveness; Regional and Urban Economics; International & Local Development

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## Experience

University of Arkansas Dept of Economics	FAYETTEVILLE, AR, USA
Graduate Research Assistant	August 2016 – Present
Was primarily engaged in application of Spatial Econometrics in understanding how the element of geography has a role in shaping the economy and satellite derived data to add an extra investigative dimension in study of socio-economic matters.	
In capacity as Research Assistant I rendered assistance to publication of a study of dynamics between night lights and geocoded aid disbursements at district level in Uganda (published in Journal of Development Economics in 2018).	
Have also worked (and currently working as well) on analyzing changes in geocoded socio-economic outcomes (from Demographic Health Surveys & IFPRI surveys) in response to geocoded health program placements in Bangladesh	
Principles of Microeconomics Instructor	August 2017 - Present
Adjunct Instructor of full fledged Sections in Basic Economics and Principles of Microeconomics at Undergrad level since 2017 August.	
Teaching Assistant	
• ECON 3033 Microeconomic Theory : Spring 2017; Fall 2018	
• ECON 3843 Economic Development, Poverty and Role of Development Institutions : Spring 2017; Fall 2018	
• ECON 3433 Money and Banking: Spring 2016; Spring 2017; Fall 2018	
• ECON 4643 International Macroeconomics and Finance: Spring 2016; Spring 2017; Fall 2018	
• ECON 4743 Introduction to Econometrics: Fall 2019; Spring 2020	
Policy Research Institute of Bangladesh	DHAKA, BANGLADESH
Senior Research Associate	Nov 2012 – June 2016
Policy Research Institute of Bangladesh (PRI) is the leading macroeconomic policy research think-tank in Bangladesh. I mainly worked towards implementation of empirical methodologies as well as writing research reports and policy papers in conjunction with policy partners such as World Bank and the Government of Bangladesh. My most important work while there was presenting an empirical analysis as to the best manner of phasing out of the existing supplementary tariff regime so as to facilitate meaningful diversification beyond the Readymade Garments Sector	

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## Current (Working) Papers

**Assessing Dynamics between World Bank Aid Allocation, Economic Growth and Conflict Intensity in Sub Saharan Africa using a Spatially augmented P-VAR** (Job Market Paper): Using a Spatial Panel Vector Autoregressive Model, with spatial dependent disturbances, I explore the dynamics between the aforementioned 3 variables at provincial level in Sub Saharan Africa, estimated in a multi-stage non-linear Generalized Method of Moments approach. Following recent literature, I used night light emissions recorded by National Oceanic and Atmospheric Administration to derive regional level of economic growth estimates. Later, I decompose the impulse responses of the system into a direct and indirect (average spillover) components.

**Conflict Intensity and Inequality** (2nd Chapter): Presenting an Empirical Likelihood based Spatial Count Model estimation procedure with multiplicative dynamic and spatial effects, I look at the effect of economic inequality on conflict incidence in Sub-Saharan Africa, at sub-national level.

**Deriving Economic Growth Estimates with Multiple Satellite signals** (3rd Chapter): Here I present a theoretical framework by which I estimate 'true' measure of economic growth / activity by augmenting Vernon Henderson's (2012) methodology (where he used night lights to measure economic growth at national level) with a second signal, at subnational level. I ran exercises on India, Brazil and Indonesia (using loss of vegetative cover as the second signal) and also for the US. I also present a Method of Moments / GMM estimation framework in the presence of more than two (independent) satellite signals.

**Deriving Economic Growth Estimates with 2 Satellite signals** : An extension of the third paper, in collaboration with dissertation supervisor Andrea Civelli, with implementation being at the world / national level, and comparing the estimates to the original lights derived only economic growth estimates from Vernon Henderson (2012).

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## Affiliation

American Economic Association

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## Skills

**Software specialties:** ArcGIS; ArcGIS Pro; QGIS; Python (2.7 & 3.7); R; Matlab; Stata; Mata; L<sup>A</sup>T<sub>E</sub>X; Eviews.

**Languages:** Bengali (*mother tongue*), English (*full professional proficiency*) and French (*elementary proficiency*).

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## Conferences

Southern Economic Association 90th Annual Meeting, 2020

Missouri Valley Economic Association 56th Annual Meeting, 2019

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## References

### Dr. Andrea Civelli

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### Dr. Raja Kali

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### Dr. Andrew Horowitz

Professor of Economics, Department of Economics  
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### Dr. Hyunseok Jung

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