

Chapman University
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ACADEMIC POSITIONS

Chapman University, Argyros School of Business
Assistant Professor, Economics and Management Science 2017-
MIT, Department of Political Science
Visiting Lecturer Fall, 2016
Wellesley College, Department of Economics
Visiting Lecturer Spring, 2015

EDUCATION

Ph.D., Economics, Boston University 2017
M.Sc., Management and Applied Economics, Wharton, University of Pennsylvania 2011
A.B., Economics, University of Chicago 2005

RESEARCH INTERESTS

Development, International, Applied Econometric Methods, Machine Learning

PUBLICATIONS

- (7) Ryan Enstrom, **Jonathan Hersh**, and David Newhouse. [Poverty from Space: Using High Resolution Satellite Imagery for Estimating Economic Well-being](#) *Submitted*
- (6) Engstrom, R., Newhouse, D., Haldavanekar, V., Copenhaver, A., & **Hersh, J.** (2017, March). Evaluating the Relationship Between Spatial and Spectral Features Derived from High Spatial Resolution Satellite Data and Urban Poverty in Colombo, Sri Lanka. In *Urban Remote Sensing Event (JURSE), 2017 Joint* (pp. 1-4). IEEE.
- (5) Klaus-Peter Hellwig and **Jonathan Hersh** "Unintended Consequences of the African Growth and Opportunity Act: The Role of Trade Diversion and Structural Change," February 2016. *Available upon request*
- (4) Marium Afzal, **Jonathan Hersh**, and David Newhouse. [Building a Better Model: Variable Selection to Predict Poverty in Pakistan and Sri Lanka](#), *World Bank Research Working Paper*
- (3) Marianne Baxter and **Jonathan Hersh** [Robust Determinants of Trade Flows](#) May 2015.
- (2) Brian Bettenhausen, Eric Hanss, **Jonathan Hersh**, and Carlos Villarreal. [Historical Health Conditions in Major US Cities: The HUE Data Set](#) *Historical Methods*, (2014) 47: 67-80.
- (1) **Jonathan Hersh** and Hans-Joachim Voth. (2011). [Sweet Diversity: Overseas Trade and Gains from Variety after 1492](#)

WORKS IN PROGRESS

Deep Poverty: Using Convolutional Neural Networks to Identify Features of Poverty in Satellite Images, with an Application in Mexico, with Boris Babenko, David Newhouse, Anusha Ramakrishnan, and Tom Swartz

The Long-Term Impact of Village Collectivization: Evidence from Tanzania’s Ujaama Program

Can Social Transfers be Arrow-Debreu? Evidence from a Pilot Project in Oaxaca

Analyzing Conflict from Space, with Hannes Mueller, Andrea Matranga and Andre Groger

Signaling Violence: Using Image and Text Recognition Software to Monitor Arms Flow in Sub-Saharan Africa, with Eduardo Albrecht

INVITED SEMINARS AND CONFERENCES

2017: UC Riverside (Economics, *scheduled*); Penn State (Economics, *scheduled*); University of Southern California (Economics); Berkeley (CEGA, Geospatial Analysis for International Development); UN Development Program (Human Development Report Office); World Bank (POV Summer University); Princeton University (Empirical Studies of Conflict); Prediction for Prevention of Armed Conflict (Barcelona, Spain)

2016: Chapman University (Argyros School of Business); Computational and Financial Econometrics (Seville, Spain); World Bank (Annual Bank Conference on Development Economics); Oxford University (CSAE: Economic Development in Africa); Eastern Economic Association; Kiel Institute (Firms in International Trade Summer School)

TEACHING

<i>Chapman University</i>	
Intro to Business Analytics	Fall 2017
Development Economics (<i>scheduled</i>)	Spring 2018
<i>MIT</i>	
Quantitative Research Methods III (Political Science PhD quantitative sequence)	Fall 2017
<i>World Bank, Summer Poverty University</i>	
Machine Learning for Development	Summer 2016; Summer 2017
<i>Wellesley College</i>	
Development Economics	Spring 2016
Introductory Microeconomics	Spring 2016

FELLOWSHIPS AND AWARDS

Hariri Institute for Computational Science Graduate Fellowship	2016
Big Data Innovation Challenge Award, World Bank Group	2014
Teaching Fellowship, Boston University	2013-2014

PREVIOUS POSITIONS

Consultant, World Bank Group, Poverty Global Practice	2014-2017
Research Manager, University of Chicago Center for Population Economics	2011-2012
Research Professional (RA Emily Oster), University of Chicago Booth School of Business	2008-2009
Economist, RCF Economic and Financial Consulting	2006-2008
Systems Analyst and Developer, McMaster-Carr Supply Company	2005-2006

SOFTWARE

Rlasso A Stata wrapper that allows for estimation of glmnet models within Stata. Performs regularization and best subset selection using the R glmnet package for Lasso, Ridge and Elastic Net regression from within Stata. [\[code\]](#) [\[help file\]](#) [\[desc\]](#)

CODING

R, Stata, Python, C++, SQL, TensorFlow

REFERENCES

Marianne Baxter
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Sam Bazzi
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