VINCENT J. ARMENTANO JR.

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WORK EXPERIENCE

Global Poverty Research Lab, Northwestern University **Evanston, IL**
Senior Research Analyst August 2017-Present

- Performed regression analysis on multi-armed agricultural RCT, exploring heterogeneity across rainfall distribution, gender and soil dimensions with marginal effect analysis
- Made use of both Causal Forest and Double Machine Learning algorithms to search for Heterogeneity
- Wrote automated Stata programs to perform at one-touch; a Post Double Selection LASSO, Marginal effects at desired points of an out-of-sample Rainfall Profits Surface, Randomization inference on those marginal effects and finally Bonferroni Q value adjustment on the final Rand.-Inf. P-Values
- Assisted with more senior administrative research tasks, managing stakeholders, hiring and overseeing the training process for new Research Analysts, managed multiple Undergraduate Research Analysts

Innovations for Poverty Action **New Haven, CT**
Research Analyst for Dr. Christopher Udry, DIRTS Project August 2016-August 2017

- Oversaw data collection of a 3,120 Household Sample RCT, performing data quality assurance checks
- Performed data cleaning on collected data in Stata software, examining outliers and summary stats
- Assisted in writing academic papers, project reports and policy memos on a variety of topics
- Partook in design of survey questionnaire items and survey construction with SurveyCTO software

INDEPENDENT RESEARCH EXPERIENCE

Rainfall Expectations and Agricultural HH Decision Making *Confirmed data access from GPRL*

- Exploiting a novel dataset that contains respondents' objective and subjective rainfall recall, as well as their expectations to see how the behavior differs across of individuals classified as pessimistic / not
- Observed correlation between pessimists selecting into less risky crop portfolio mixes
- Constructed an ML Algorithm taking advantage of supplementary data to predict HH Types as pessimistic
- Able to take advantage of multiple satellite rainfall data sources and definitions to see which rainfall definitions are most salient to respondents contributing to the methodology and behavioral literature
- Able to take advantage of breaks in respondent answers when rainfall levels don't correlate with Best/Worst Classified Farming Seasons to develop empirically tuned Upside Down U of rainfall returns

Methodological RCT: Enumerator Priors *Confirmed Funding Support from GPRL*

- Designed a study that causally identifies the impact of Enumerators' priors on collected data
- The study design is flexible so as to take advantage of existing projects' survey infrastructure
- Established suggestive evidence to support the Theory of change being tested with older data
- Performed power calculations to ensure the effect sizes found in existing projects could be reasonably well identified
- Took advantage of MTurk to pilot and fine tune the intervention.

EDUCATION

Northeastern University **Boston, MA**
Major: Bachelor of Arts in Economics/International Affairs 2016
GPA: 3.702 Magna Cum Laude
Minor: Global Social Entrepreneurship
Relevant Coursework: Econometrics, Micro & Macro Theory, Development Econ, Gender & Dev, Statistics

London School of Economics **London, United Kingdom**

- Courses include Development Economics, Development in the Intl. Political Economy Summer 2015

Social Entrepreneurship Field Research **Cape Town, South Africa**

- Consulted with Cape Flats entrepreneurs, assisting with strategy and profitability Summer 2014
- Awarded funding for business plan project for implementation by local boxing academy

SKILLS

Computer: Professional Level Programmer in Stata, Proficient in R, Familiar with Python and ArcGIS