Jimmy Lee (Last updated: January 31, 2024)

Northwestern Economics

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Fields	<u>Research:</u> Development Economics, Household Economics, Organizational Economics		
	<u>Teaching:</u> Development Economics (undergraduate and graduate levels), Microeconomics, Macroeconomics (undergraduate level), International Trade, Causal Inference (undergraduate level)		
Education	 Ph.D., Economics, Northwestern University, 2024 (Expected) Dissertation: Essays in Development Economics Committee: Christopher Udry (Chair), Dean Karlan, Lori Beaman M.A., Economics, Northwestern University, 2018 M.Phil., Economics, The Chinese University of Hong Kong, 2017 B.SSc., Economics, The Chinese University of Hong Kong, 2015 		
Research Grants	USAID Development Innovation Venti "Building a Sustainable System of Wellspring Foundation (\$192,185; co "Building a Sustainable System of Fund for Innovation in Development ("Building a Sustainable System of Food and Agriculture Organization (\$ "Agricultural Investments among far National Science Foundation (\$451,1 "Social Norms, Trust, and Intergen Weiss Fund (\$28,815; Lead PI) "Barriers to Intergenerational Flow Global Poverty Research Lab (\$18,80 "Pilot: Evaluating a School-based A Buffett Institute for Global Affairs (\$5,1	Agricultural Extension in Schools" -PI)Spring 202Agricultural Extension around Schools in Liberia"\$1,016,641; co-PI)Summer 202Agricultural Extension around Schools in Liberia"68,000; co-PI)Spring 202armers in Liberia"Spring 20235; co-PI)January 202erational Flow of Innovations"Spring 202of School-taught Agricultural Knowledge in LiberiaSpring 20207; Lead PI)November 207Agricultural Education Program in rural Liberia"	5 [°] 22 21 21 20 20 <u>2</u> 20 20 21 19
Teaching Experience	Teaching Assistant, Northwestern Un Winter 2020, Winter 2023, Spring Fall 2019: <i>Intermediate Microec</i> Fall 2020, Fall 2022: <i>Introduction</i> Spring 2021: <i>Intermediate Macro</i> Winter 2021: <i>International Trade</i> Winter 2022: <i>Economics of Non</i>	2023: Introduction to Microeconomics onomics II n to Macroeconomics peconomics	

Research
Experience

Research Assistant, Northwestern University 2018-19, 2020-21, 2023-24: **Prof. Christopher Udry** Research Assistant, The Chinese University of Hong Kong 2016-17: **Prof. Kim-Sau Chung**

Job Market Paper

"Information Interventions and Intergenerational Responses to School-based Agricultural Extension in Liberia"

(3 out of 4 surveys completed)

Teaching improved farming practices in schools can transform the lives of rural students and their households, but students' adoption depends on what their parents expect about them, and students may be unsure of their parents' expectations. In a field experiment with 197 schools in Liberia, I study the effects of (i) a randomly assigned school-based agricultural extension program; and (ii) different strategies to engage households using information interventions. In 50 randomly selected program schools, I provide promotional videos to a parent or guardian (henceforth elder) and show that this leads elders to anticipate growth in students' farming skills. I then randomize whether to reveal elders' expected growth to students. After one year, the program increases students' adoption of soil management techniques by 0.4 standard deviations, but this increase happens only with information interventions. The video treatment increases households' adoption of soil management techniques, but revelation alters household responses ---- increasing students' management of farms and adoption of a commercial-oriented cultivation style. When households receive a video that includes testimonials from authority figures, adding revelation increases students' farm incomes by 87% and school enrollment by 5 percentage points. I show that adding communication frictions in a collective household model explains household responses to information interventions. Taken together, the results highlight sizable returns from tackling intergenerational communication in information campaigns.

Work in Progress

"Evaluating a System of School-based Agricultural Extension in Liberia" *(joint with Christopher Udry, 3 out of 4 surveys completed)*

We evaluate a school-based agricultural extension program in Liberia, which is unique in its systems approach it leverages the educational infrastructure of rural schools and the efforts of science teachers and students to achieve multiple goals: amplifying the diffusion of agricultural technologies, improving students' education, skills and livelihoods, and introducing experiential elements in science pedagogy. Tackling multiple issues at once can be potentially cost-effective, especially if the program increases the retention of teachers and students and generates income for rural schools. Our randomized trial in 197 program and control schools is designed to evaluate several premises of the systems approach. First, the system as a whole can be effective in achieving its goals. Second, the program can generate positive spillovers to nearby communities as well as untrained teachers and students. Third, randomized sub-treatments (such as program promotional videos and annual farmer field day) can increase program effectiveness. Three survey rounds have been completed — the fourth round will take place in late 2024, evaluating long-term program impacts such as the functioning of schools, yields and sales of sampled households, and spillovers to untrained farmers.

"A Two-Pronged Approach to Estimating the Situational Effects of Agricultural Technologies" *(financed by Weiss Fund in Summer 2022; piloting of survey method completed)*

Ample evidence suggests that the usefulness of agricultural technologies is very sensitive to the heterogeneous soil conditions in Sub-Saharan Africa, but little is known about how farmers consider such heterogeneity in adoption decisions. This project proposes a two-pronged approach to evaluate how the situation-specificity of technologies affects farmers' adoption decisions and the usefulness of technologies. First, farmers are asked whether they face agronomic situations that motivate the introduction of agricultural technologies, and whether they correctly identify promoted practices as ways of solving particular agronomic issues. Second, I randomize the timing of introduction of (or emphasis on) particular technologies across regions. Using the randomization status as instruments, this two-pronged approach allows the researcher to causally estimate how farmers' knowledge of particular practices affects their management of farms and welfare, and how such effects vary with the relevance of agronomic situations to farmers. This method can be embedded in standard household surveys and enable better feedback to agronomic research and development.

Languages English (fluent), French (beginner), Mandarin (fluent), Cantonese (native)

Programming Stata, R, Matlab, SurveyCTO

References

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