Daniel Herbst

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CONTACT INFORMATION

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ACADEMIC APPOINTMENTS

2018 -	Assistant Professor, Department of Economics, University of Arizona
2019 - 2020	Visiting Scholar, MIT Golub Center for Finance and Policy

EDUCATION

2018	Ph.D. in Economics, Princeton University
2010	A.B. in Applied Math - Economics, Brown University

FIELDS OF INTEREST

Labor Economics, Consumer Finance, Education

FELLOWSHIPS, AWARDS, AND HONORS

2017 - 2018	National Academy of Education/Spencer Dissertation Fellowship
2016	Towbes Prize for Outstanding Teaching
2016 - 2017	Richard A. Lester Fellowship for Industrial Relations
2013 - 2014	Louis A. Simpson Graduate Fellowship
2014	Princeton IES Summer Fellowship
2010	magna cum laude with Honors in Economics, Brown University
2009	Phi Beta Kappa (Junior Year), Brown University

TEACHING EXPERIENCE

Spring 2019 - 2021	Instructor, ECO481 Economics of Wage Determination
Spring 2019	Instructor, ECO382 Labor and Public Policy
Summer 2014/15/16	Instructor, Advanced Math Camp, Princeton MPA program

PROFESSIONAL ACTIVITIES

2010 - 2012

2010

Referee for American Economic Journal: Applied Economics, Economics of
Education Review, Quantitative Economics, Quarterly Journal of Economics,
Journal of Human Resources, Journal of Policy Analysis and Management, Journal
of Political Economy, Review of Economics and Statistics, and Review of Economic
Studies
Assistant Economist, Federal Reserve Bank of New York
Research Associate, NERA Economic Consulting

2009 Intern, Federal Reserve Board

INVITED TALKS AND PRESENTATIONS

2018 - 2021

APPAM Annual Research Conference, CFPB Research Conference, Federal Reserve Board, IIPF Annual Congress, IZA Economics of Education Workshop, Jain Family Institute, Kansas State University, MIT Golub Center, National Academy of Education Research Conference, National Tax Association Research Conference, NBER Education Spring Meetings, RAND Corporation, Society of Labor Economists Annual Meeting, Vanderbilt University, Rutgers University, University of Arizona, University of Bristol, University of California Merced

PUBLICATIONS

2015

"Peer effects on worker output in the laboratory generalize to the field" (with Alexandre Mas), *Science* 350.6260 (2015): 545-549.

We compare estimates of peer effects on worker output in laboratory experiments and field studies from naturally occurring environments. The mean study-level estimate of a change in a worker's productivity in response to an increase in a co-worker's productivity (γ) is $\gamma = 0.12$ (SE = 0.03, N = 34), with a between-study standard deviation of τ^2 =0.16. The mean estimated g γ -values are close between laboratory and field studies ($\gamma_{lab} - \gamma_{field} = 0.04$, P = 0.55, $n_{lab} = 11$, $n_{field} = 23$), as are estimates of between-study variance τ^2 ($\tau^2_{lab} - \tau^2_{field} = -0.003$, P = 0.89). The small mean difference between laboratory and field estimates holds even after controlling for sample characteristics such as incentive schemes and work complexity ($\gamma_{lab} - \gamma_{field} = 0.03$, P = 0.62, $n_{samples} = 46$). Laboratory experiments generalize quantitatively in that they provide an accurate description of the mean and variance of productivity spillovers.

2018

"Unions and Inequality Over the Twentieth Century: New Evidence from Survey Data" (with Henry Farber, Ilyana Kuziemko, Suresh Naidu), *The Quarterly Journal of Economics* 136.3 (2021): 1325-1385.

It is well-documented that, since at least the early twentieth century, U.S. income inequality has varied inversely with union density. But moving beyond this aggregate relationship has proven difficult, in part because of the absence of micro-level data on union membership prior to 1973. We develop a new source of micro-data on union membership, opinion polls primarily from Gallup (N \approx 980, 000), to look at the effects of unions on inequality from 1936 to the present. First, we present a new time series of household union membership from this period. Second, we use these data to show that, throughout this period, union density is inversely correlated with the relative skill of union members. When density was at its peak in the 1950s and 1960s, union members were relatively less-skilled, whereas today and in the pre-World War II period, union members are equally skilled as non-members. Third, we estimate union household income premiums over this same period, finding that despite large changes in union density and selection, the premium holds steady, at roughly 15–20 log points, over the past eighty years. Finally, we present a number of direct results that, across a variety of identifying assumptions, suggest unions have had a significant, equalizing effect on the income distribution over our long sample period.

RESEARCH PAPERS

2019 "Liquidity and Insurance in Student-Loan Contracts: The Effects of Income-Driven Repayment on Borrower Outcomes" Revise and Resubmit at AEJ: Applied

Traditional student loan payments fall on borrowers early in their careers and provide no insurance against earnings shocks. By contrast, Income-Driven Repayment (IDR) lowers monthly minimums to a share of borrower income until debt is repaid or some forgiveness period has been reached, increasing short-run liquidity at the potential cost of long-run debt forgiveness or distorted labor supply. In this paper, I use an administrative panel of student loans to estimate IDR's effect on short- and long-run borrower outcomes and predict its fiscal costs. Exploiting variation in loan-servicing calls, I find that enrolling in IDR results in 22pp fewer delinquencies and \$368 lower balances within eight months of take-up. Three years later, IDR enrollees are 2.0pp more likely to hold mortgages, 1.8pp more likely to move to a higher-income zip code, and hold 0.2 more credit cards than non-enrollees. By contrast, I find no effects on unemployment deferments, a proxy for borrower employment status. I also find that most enrollees exit IDR and return to standard repayment after just one year, meaning the predicted incidence of debt forgiveness under IDR is close to zero. Taken together, my results suggest IDR provides short-term liquidity benefits but limited lifetime insurance value, carrying minimal long-run fiscal costs or labor supply distortions.

2021 "Opportunity Unraveled: Private Information and Missing Markets for Human Capital" (with Nathaniel Hendren)

Investing in college carries high returns, but comes with considerable risk. Financial products like equity contracts can mitigate this risk, yet college is typically financed through non-dischargeable, government-backed student loans. This paper argues that adverse selection has unraveled private markets for college-financing contracts that mitigate risk. We use survey data on students' expected post-college outcomes to estimate their knowledge about future outcomes, and we translate these estimates into their implication for adverse selection of equity contracts and several state-contingent debt contracts. We find students hold significant private knowledge of their future earnings, academic persistence, employment, and loan repayment likelihood, beyond what is captured by observable characteristics. For example, our empirical results imply that a typical college-goer must expect to pay back \$1.64 in present value for every \$1 of equity financing to cover the financier's costs of covering those who would adversely select their contract. We estimate that college-goers are not willing to accept these terms so that private markets unravel. Nonetheless, our framework quantifies significant welfare gains from government subsidies that would open up these missing markets and partially insure college-going risks.

WORKS IN PROGRESS

2021 "Equity and Incentives in Human Capital Investment: Evidence from a Randomized Experiment" (with Constantine Yannelis and Miguel Palacios)

Currently in the Field

In this study, we test for adverse selection, moral hazard, and liquidity effects in income-share agreements. Specifically, we conduct a large field experiment among ISA borrowers in Latin America, which randomly varies contract offers across two dimensions: (1) the share of income owed, and (2) a flat monthly payment. Comparing realized earnings, repayment, and baseline characteristics between those borrowers in each group who declined their respective offers identifies adverse selection because both groups of "non-compliers" faced different menus of options but ultimately chose the same pre-offer contract terms. At the same time, because these two treatment contracts offer the same earnings disincentive (income-share reduction) but different liquidity benefits (flat monthly payment), estimating their treatment effects relative to control borrowers allows us to separately identify moral hazard and liquidity effects.