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DOCTORAL STUDIES

Syracuse University
PhD, Economics, Expected completion May 2022
DISSERTATION: "Essays on Health Economics and Applied Econometrics"

DISSERTATION COMMITTEE AND REFERENCES

Alfonso Flores-Lagunes (Chair)
Professor of Economics
Syracuse University
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Hugo Jales
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Maria Zhu
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PRIOR EDUCATION

George Mason University — 2017
BS in Economics and Mathematics (minor)

CITIZENSHIP

United States

LANGUAGES

English (native), Italian (conversational), Spanish (basic)

FIELDS

Primary Fields: Health Economics, Applied Econometrics
Secondary Fields: Labor Economics, Public Economics

TEACHING EXPERIENCE

Intermediate Microeconomics (undergrad, Syracuse University) — 2019
Primary Instructor

Economics of Family Decisions (undergrad, Syracuse University) — 2021
Teaching Assistant to Prof. Emily Wiemers

	Environmental and Resource Economics (undergrad, SU) Teaching Assistant to Prof. Carmen Carrión-Flores	2020, 21
	Labor Economics (undergrad, SU) Teaching Assistant to Prof. Alfonso Flores-Lagunes	2019
	Intermediate Mathematical Microeconomics (undergrad, SU) Teaching Assistant to Prof. Leyla D. Karakas	2019
	Principles of Microeconomics (undergrad, SU) Teaching Assistant to Prof. Elizabeth Ashby	2017-18
RESEARCH EXPERIENCE	Research Assistant to Prof. Alfonso Flores-Lagunes Syracuse University, Center for Policy Research	2019-21
AWARDS	Graduate Assistantship, Syracuse University	2017-21
CONFERENCE & SEMINAR PRESENTATIONS	Syracuse University (Graduate Student Workshop, scheduled) Syracuse University (Graduate Labor Group Seminar) Syracuse University (Graduate Education & Social Policy Seminar)	2021 2018-21 2021

RESEARCH PAPERS

"A Voucher a Day Keeps the Doctor Away: Bounding the Effect of Housing Assistance on Recipients' Health" (Job Market Paper)

Housing quality, both in terms of the physical structure and neighborhood characteristics, is positively associated with health outcomes. I examine the Housing Choice Voucher (HCV) program as a possible means of improving the health of recipients who would otherwise participate in place-based assistance programs such as public housing, or rent without a subsidy in the private market. Under three weak and plausible assumptions—voucher holders have weakly worse average potential health outcomes than non-recipients (non-positive monotone treatment selection); receiving a voucher does not result in strictly poorer health (monotone treatment response); on average, potential health outcomes are positively related to reported income (monotone instrumental variable)—I obtain nonparametric bounds on the average treatment effect of HCV on the health of individuals in recipient households using nationally-representative data from the 2018 Survey of Income and Program Participation (SIPP). My preferred estimates find that the causal effect is positive and statistically significant, with the likelihood of good or better self-reported health status increased by at least 4.8 percentage points and at most 21.3 percentage points. I also estimate that the probability of not having been hospitalized over the previous year is increased between 0.1 and 18.4 percentage points, though the effect is not statistically distinguishable from zero at conventional levels. Among Black members of voucher households, I estimate a larger lower bound for the effect on self-reported health of 11.7 percentage points, hinting that the effect on health is potentially larger for this subpopulation.

"What Can We Learn About the Effect of Mental Health on Labor Market Outcomes Under Weak Assumptions? Evidence from the NLSY79." (with Vikesh Amin, Carlos Flores, and Alfonso Flores-Lagunes). Submitted at *Labour Economics*.

We employ a nonparametric partial identification approach to bound the causal effect of poor mental health on employment and earnings using the National Longitudinal Study of Youth 1979. Our approach allows us to provide bounds on

the population average treatment effect based on relatively weak, credible assumptions. We also provide insights into the heterogeneity of the effects on labor market outcomes at different levels of adverse mental health experienced (no-to-mild, moderate, and severe depressive symptoms). We find that (1) being categorized as depressed decreases employment by 10% and earnings by 27% at most, but we cannot statistically rule out a zero effect, and (2) going from no-to-mild to severe depressive symptoms reduces employment by 2-16% and earnings by 8-37%, with both estimated bounds statistically ruling out a zero effect.

RESEARCH IN PROGRESS

"The Use of Polygenic Scores as Monotone Instrumental Variables" (with Vikesh Amin, Carlos Flores, and Alfonso Flores-Lagunes)
Researchers are increasingly using polygenic scores (PGSs)—summary measures of genetic predisposition—as instruments to identify causal effects, but they are unlikely to satisfy the exclusion restriction. We propose the use of PGSs as a monotone instrumental variable (MIV) within the nonparametric partial identification framework of Manski and Pepper (2000). Under the MIV assumption—that PGSs have a monotone (weakly increasing or decreasing) relationship with the outcome—they can help bound the causal effect of interest together with weak monotonicity assumptions regarding treatment selection and response. We provide an exposition of the Manski and Pepper (2000) framework and assumptions. We illustrate the use of PGSs in this setting with three empirical applications.

"mpclr: A Command for Bias-Corrected Estimation and Valid Inference for Nonparametric Bounds on Treatment Effects" (with Carlos Flores and Alfonso Flores-Lagunes)

"Fuzzy Spatial RDD with Bounded Measurement Error in the Running Variable"