

EDUCATION	<b>The Graduate Center at City University of New York</b> Ph.D. candidate in Economics Approved field exams: Applied econometrics, and economics of human resources Dissertation advisors: Núria Rodríguez-Planas and Wim Vijverberg <b>University of Maryland, College Park</b> Visiting graduate student (Host: Sergio Urzua) <b>Georgetown University</b> Master of Arts in Economics <b>Universidad de Chile</b> Master in Finance (grad. with distinction) Business engineering, concentration in economics (grad. with distinction)	NY, USA Fall 2016-    MD, USA Spring 2019 DC, USA Dec 2015 Santiago, Chile Nov 2012 Sep 2009
FIELDS	Primary: Applied econometrics, labor economics, socioeconomic inequality Secondary: Finance, macroeconomics	
SELECTED WORK EXPERIENCE	<b>Baruch College</b> Cyberlearning Fellow (working with Ted Joyce) <b>The World Bank</b> Consultant at the Development Research Group (Poverty & Inequality) <b>Stone Center on Socio-Economic Inequality</b> Research associate <b>The World Bank</b> Consultant at the Macroeconomics, Trade, and Investment Unit <b>Inter-American Development Bank</b> Consultant at the Labor Markets Division <b>The World Bank</b> Consultant at the Development Research Group (Human Development) <b>Central Bank of Chile, Research Division</b> Senior economic and financial analyst Economic adviser to Joaquin Vial (board member) Economic and financial analyst	NY, USA Aug 2020- DC, USA May 2019- NY, USA Jan 2018- DC, USA Jul 2018-Jun 2019 DC, USA Mar 2016-Aug 2016 DC, USA Mar 2016-Aug 2016 Santiago, Chile Jan 2012-Aug 2014 Jan 2012-Aug 2014 Feb 2010-Dec 2011
SELECTED TEACHING EXPERIENCE	<b>City College of New York</b> Lecturer of Introduction to Econometrics <b>Universidad de Santiago</b> Lecturer of Introduction to Macroeconomics <b>Universidad de Chile</b> Graduate teaching assistant of Finance (MBA's course) <b>Universidad Diego Portales</b> Teaching assistant of Introduction to Economics	NY, USA Fall 2017-Spring 2020 Santiago, Chile Spring 2014 Santiago, Chile Fall 2011-2013 Santiago, Chile Fall and Spring 2010-2011
AWARDS AND FELLOWSHIPS	<b>Doctoral Student Research Grant</b> Grant (\$1K) to fund research expenses <b>Advanced Research Collaborative (Inequality cluster)</b> Student research praxis award (\$4K) <b>The Graduate Center at City University of New York</b> Merit-based fellowship <b>Georgetown University, Graduate School of Arts &amp; Sciences</b> Merit-based fellowship <b>Universidad de Chile, Graduate School of Business</b> Fellowship based on merit and socioeconomic background <b>Universidad de Chile, Faculty of Economics &amp; Business</b> Scholarship based on socioeconomic background <b>Ministry of Education</b> Scholarship based on merit and socioeconomic background <b>Local Government of Cauquenes</b> Scholarship based on university admission test score	NY, USA Spring 2019 NY, USA Spring 2018 NY, USA 2016-2021 DC, USA 2014-2015 Santiago, Chile 2009 Santiago, Chile 2004-2008 Santiago, Chile 2004-2008 Cauquenes, Chile 2004-2008

PEER-REVIEWED PAPERS	<ol style="list-style-type: none"> <li>1. “kmr: A Command to Correct Survey Weights for Unit Nonresponse using Group’s Response Rates,” forthcoming at <i>The Stata Journal</i>, 2020 (w/Salvatore Morelli)</li> <li>2. “Ex-Dividend Date Stock Behavior and the Clientele Effect: Evidence around a Tax Reduction,” <i>Global Finance Journal</i>, 32, 2017 (w/Arturo Rodriguez)</li> <li>3. “The Effect of Growth Surprises in China on the Price of Copper,” <i>Economía Chilena</i>, 17(3), 2014</li> <li>4. “Commodity Prices Shocks and Latin American Stock Markets,” <i>Economía Chilena</i>, 16(3), 2013 (w/Mariel Siravegna)</li> <li>5. “Sovereign Bond Spreads in Emerging Economies. Does Export Concentration Matter?,” <i>Economía Chilena</i>, 16(1), 2013</li> <li>6. “Using a FAVAR to Forecast Copper Prices,” <i>Economía Chilena</i>, 15(3), 2012 (w/Pablo Cruz)</li> <li>7. “An Evaluation of Forecasting Models for Copper Prices,” <i>Economía Chilena</i>, 14(3), 2011 (w/Eduardo Lopez and Victor Riquelme)</li> <li>8. “Do Earthquakes Have an Impact on Inflation in Short Term? Evidence for a Sample of Countries,” <i>Economía Chilena</i>, 13(2), 2010 (w/Alfredo Pistelli)</li> </ol>
NON-ACADEMIC PUBLISHED WORK	<ol style="list-style-type: none"> <li>1. “Budget Rigidity in Latin America and the Caribbean: Causes, Consequences, and Policy Implications,” <i>International Development in Focus, World Bank</i>, 2020 (contributor)</li> </ol>
DISSERTATION	<ol style="list-style-type: none"> <li>1. “The Geography of Intergenerational Mobility in Latin America and the Caribbean”</li> <li>2. “Intergenerational Educational Mobility within Chile”</li> <li>3. “Pre-testing for Unobserved Cluster Effects and Inference in Panel Data Sets” (w/Wim Vijverberg)</li> </ol>
WORKING PAPERS	<ol style="list-style-type: none"> <li>1. “Implementing Quantile Selection Models in Stata” (w/Mariel Siravegna) Submitted</li> <li>2. “Unit Nonresponse Bias in the Current Population Survey” (w/Salvatore Morelli) Submitted</li> <li>3. “Incumbency Advantage, Money, and Campaigns: A Note on Some Suggestive Evidence from Chile” Submitted</li> <li>4. “Did They Hurt Growth? A Synthetic Control Estimate of the Impact of ‘Bachelet’s Reforms’” Submitted</li> <li>5. “Jumping on the Bandwagon? Attendance Response to Recent Victories in the NBA” (w/Jiadi Chen and Milan Thomas) Submitted</li> <li>6. “Momentum in Repeated Competition: Exploiting the Fine Line between Winning and Losing” (w/Jiadi Chen and Milan Thomas) Submitted</li> <li>7. “Are Budget Rigidities a Source of Fiscal Distress and a Constraint for Fiscal Consolidation?,” <i>World Bank Policy Research Working Paper</i> N° 8957, 2019 (w/Eduardo Olaberria)</li> <li>8. “What Determines the Size of Public Employment? An Empirical Investigation,” <i>World Bank Policy Research Working Paper</i> N° 8961, 2019 (w/Santiago Herrera)</li> <li>9. “Wage Inequality in Latin America: Learning from Matched Employer-Employee Data,” <i>IDB Working Paper</i> N° 1004, 2019 (w/Graciana Rucci, Fernando Saltiel, and Sergio Urzua)</li> <li>10. “Oil Prices: Geopolitical Tensions and Supply Events,” <i>Central Bank of Chile Working Paper</i> N° 680, 2012 (w/Eduardo Lopez)</li> <li>11. “Forecast Combination for Oil Prices: Application and Evaluation of Methodologies,” <i>Central Bank of Chile Working Paper</i> N° 660, 2012 (w/Miguel Ricaurte and Mariel Siravegna)</li> <li>12. “Long Term Interest Rates and Fiscal Policy,” <i>Central Bank of Chile Working Paper</i> N° 633, 2010 (w/Eduardo Lopez and Victor Riquelme)</li> </ol>
ONGOING WORK	<ol style="list-style-type: none"> <li>1. “On the Use of Wild and Pair Bootstrap in Finance with an Application to Time Series Momentum”</li> </ol>
PRESENTATIONS	Midwest Economics Association 2021 (scheduled), Western Economic Association International 2021 (scheduled), Stone Center on Socio-economic Inequality 2020 (scheduled), Southern Economic Association 2020, Missouri Valley Economic Association 2020, Stata Conf. 2020, Western Economic Association International 2020, Eastern Economic Association 2020, NY Camp Econometrics 2020 (canceled), The World Bank 2019 (co-author), Stata Conf. Chicago 2019, GWU Student Research Conf. 2019, APPAM DC Regional Student Conf. 2019, CGU Dissertation Workshop 2019, SSSI Bonn 2018 (poster), XLIX CLADEA Conf. 2014 (co-author), SECHI 2012, Central Bank of Chile 2011-12-13
REFeree	Latin American Research Review, European Journal of Sports Science, Structural Change and Economic Dynamics, Journal of Income Distribution, Cuadernos de Economía, and proposals presented at the National Science Fund of Chile 2012
OTHER SERVICE	Elected (by students in Economics) for the Graduate Center Admissions & Awards Committee, and the Executive Committee for 2018-2019 and 2019-2020

WORKSHOPS AND SHORT COURSES	Claremont Graduate University Dissertation Workshop	CA USA, 2019
	Summer School on Socioeconomic Inequality at the University of Bonn	Germany, 2018
	LIS Introductory Summer Workshop	Luxembourg, 2018
	Inequality by the Numbers, by Stone Center on Socio-economic Inequality	NY USA, 2018
	Empirical Models of Differentiated Products, by Steven Berry	DC USA, 2015
	GPM/GIMF Network Workshop, by IMF and CEPREMAP	Mexico, 2014
	GPM Network Summer Workshop, by IMF and CEPREMAP	France, 2013
	Forecasting, by Bruce Hansen	Chile, 2013
	Panel Data Econometrics, by Manuel Arellano	Spain, 2011
	Econometrics of Financial Markets, by Francis X. Diebold	Chile, 2011

LANGUAGES Spanish (native) and English (fluent)

SOFTWARE Proficient in Latex, Eviews, Matlab, R, and Stata  
Intermediate knowledge in Python

REFERENCES	Wim Vijverberg (co-chair)	Núria Rodríguez-Planas (co-chair)	Christos Giannikos
	Professor of Economics	Professor of Economics	Professor and Executive Officer
	The Graduate Center, CUNY	Queens College, CUNY	The Graduate Center, CUNY

## DISSERTATION ABSTRACTS **The Geography of Intergenerational Mobility in Latin America and the Caribbean**

In this paper, I estimate intergenerational mobility (IGM) in education using cross-sectional data from 88 censuses that span 23 countries in Latin America and the Caribbean (LAC) over half a century. I measure upward mobility as the likelihood of obtaining at least a primary education for individuals whose parents did not finish primary school, whereas downward mobility as the likelihood of failing to complete primary education for individuals whose parents completed at least primary school. In addition, I explore the geography of educational IGM using nearly 400 “provinces” (coarse administrative units similar to states in the U.S.) and more than 6,000 “districts” (fine administrative units similar to counties in the U.S.). I document wide cross-country and within-country heterogeneity. In LAC, the distance between the most and least upwardly mobile country is similar to what has been recently documented in Africa, although the least mobile countries in Africa are less mobile than the least mobile in LAC. I document a declining trend in the mobility gap between urban and rural populations, but I do not find important differences by gender. The level of mobility is highly correlated to the share of primary completion of the previous generation, which suggests a high level of inertia. In contrast, geographical variables do not appear to be highly correlated to mobility, and some proxies of economic development at the beginning of the sample period are only correlated to downward mobility.

### **Intergenerational Educational Mobility within Chile**

I estimate intergenerational mobility (IGM) in education at a disaggregated geographic level for the cohort born in the nineties using full-count Census microdata of Chile. I document wide variation across the more than three hundred communes in absolute and relative IGM. Relative mobility measured as one minus the regression coefficient of children education on parental education ranges between 0.56 and 0.98 while absolute mobility estimated as the intercept of the same regression ranges between 7 and 12. Relative mobility is positively correlated with municipal budget, municipal expenditure and public education coverage, and negatively correlated with earnings inequality, population, population density, and the ratio of students per teacher.

### **Pre-testing for Unobserved Cluster Effects and Inference in Panel Data Sets (w/Wim Vijverberg)**

This paper addresses the question of how to estimate the standard errors in panel data when unobserved cluster effects are potentially present. We analyze the performance of statistical inference regarding the parameters of a panel data model when it is first subjected to a pretest for the presence of individual and/or time unobserved cluster effects. Using Monte Carlo simulations we compare the performance of six proposed diagnostics that make use of statistical tests available in the literature such as Lagrange multiplier, Likelihood ratios, and F tests. We find that these six pretest estimators are a viable alternative to estimate panel data models with unobserved cluster effects, in the sense that they achieve empirical sizes very close to the ones obtained using an estimator of the variance as if we knew the true data generating process. These results are robust, at least in the context of our simulations, to the presence of temporary clusters effects, and non-normality of the disturbance, as well as non-normality of the regressor. We provide several empirical examples to illustrate the importance of our findings.

Updated: December 2020