

# RAPHAEL DOS SANTOS

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EDUCATION	<b>Arizona State University</b> - Tempe, AZ - USA	
	Ph.D. in Economics,	2018 - 2024 (Expected)
	M.S. in Economics,	2022
	<b>Getulio Vargas Foundation</b> - Rio de Janeiro, RJ - Brazil	
	M.A. in Economics,	2017
	<b>Universidade Federal Fluminense</b> - Niterói, RJ - Brazil	
	B.A. in Economics,	2014
RESEARCH FIELDS	Labor Economics, Applied Econometrics, Economics of Education	
TEACHING EXPERIENCE	<b>Teaching Assistant</b>	
	<b>Arizona State University</b>	
	Business Statistics	Spring 23
	Microeconomics Principles	Fall 22,20 & Spring 21
	Labor Economics	Spring 20
	Intermediate Microeconomics	Fall 19
	<b>Getulio Vargas Foundation (EPGE/FGV)</b>	
	Macroeconomics	Spring 17,16
	Time Series Econometrics (MBA)	Fall 17 & Spring 16
	<b>Universidade Federal Fluminense (UFF)</b>	
	Macroeconomics	Spring 14,13 & Fall 14,13
OTHER EMPLOYMENT	<b>Inter-American Development Bank</b> , Washington D.C. , USA	
	Summer Graduate Consultant	Jun/23-Aug/23
	<b>Rio de Janeiro City Hall</b> , Rio de Janeiro, RJ , Brazil	
	Economic Advisor	Jan/20-Aug/21
WORKING PAPERS	<b>Impact of Urban Violence on Human Capital Accumulation: Evidence from Rio de Janeiro Public Schools - (<i>Job Market Paper</i>)</b>	

In Rio de Janeiro, approximately 128,000 public school students faced class cancellations in 2015 due to incidents of violence occurring in nearby neighborhoods. Exposure to such episodes not only results in missed classes but also diminishes human capital accumulation and induces psychological trauma. These incidents disproportionately occur in impoverished neighborhoods with limited amenities, public services, and household income, which imposes an empirical challenge to identify their causal effect. To measure the causal impacts of shootings on students' test scores, I constructed a new database linking geo-located shooting data to administrative records of quarterly standardized test scores. By exploring variations in exposure intensity within students over time, I found that shootings close to schools reduce test scores in Math and Language by up to 0.12 s.d., with a more pronounced effect later in the school year. The effect is three times larger when shooting episodes involve police officers. Additionally, I estimate a model of dynamic treatment effects and find that the effects of shootings on test scores do not persist over time.

## Beyond Access: The Effect of Racial Admission Quotas on Student Outcomes in Brazilian Vocational High Schools

This article investigates the impact of implementing quotas, reserving half of the seats for students from minorities in selective vocational public high school admissions, on student outcomes. Exploring the natural experiment created by the phased policy rollout, the paper employs a differences-in-differences strategy. The findings indicate that the introduction of the quota policy led to an approximate 2% point increase in the grade failure rate, coupled with a 1% point reduction in the drop-out rate. Furthermore, the study explores variations in the percentage of reserved seats across cohorts within schools to disentangle the policy effects into two components: (1) Changes in initial preparation levels attributed to the replacement of better-performing non-affirmative action students by new targeted entrants, and (2) other changes induced by the policy at the school level. In the absence of additional effects, changes in the initial quality of entrants would elevate the grade-failure rate by 6% points, underscoring the existence of mitigating forces that offset the effect by 4% points.

FELLOWSHIPS AND AWARDS	Arizona State University - Graduate Fellowship	2018-2024
	CAPES/CNPq Merit Fellowship for Master's Studies	2015-2016
	Top 1% in the National Admission Exam of Economics Graduate Programs	2015
	Gold Medal in Brazilian Math Olympiad	2006
	Silver Medal in Brazilian Math Olympiad	2009
	Bronze Medal in Brazilian Math Olympiad	2007

REFERENCES	<b>Esteban Aucejo</b> (Chair) Associate Professor Arizona State University <a href="mailto:esteban.aucejo@asu.edu">esteban.aucejo@asu.edu</a> (480) 9653531	<b>Andreas Kostøl</b> Assistant Professor Arizona State University <a href="mailto:andreas.kostol@asu.edu">andreas.kostol@asu.edu</a> (602) 475-8407
	<b>Alvin Murphy</b> Associate Professor Arizona State University <a href="mailto:alvin.murphy@asu.edu">alvin.murphy@asu.edu</a> (480) 9657995	<b>Elena Arias</b> Senior Specialist Inter-American Development Bank <a href="mailto:eariasortiz@iadb.org">eariasortiz@iadb.org</a> (202) 3788486

DEPARTMENT CONTACT	Placement Director: Natalia Kovrijnykh	<a href="mailto:nkovrijn@asu.edu">nkovrijn@asu.edu</a>	(480) 465-5153
	Placement Coordinator: Laura-Jean Talts	<a href="mailto:ltalts@asu.edu">ltalts@asu.edu</a>	(480) 465-5153

COMPUTER SKILLS	R, Python, Stata, SQL, MATLAB, L <sup>A</sup> T <sub>E</sub> X, Eviews, VBA, SAS
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LANGUAGES	Portuguese (native), English (fluent), Spanish(basic)
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