Last update: October 2023

AMILCAR VELEZ

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EDUCATION

Northwestern University

Ph.D. Candidate in Economics

Sep 2019 - Present

M.A. in Economics

2020

Instituto Nacional de Matemática Pura e Aplicada (IMPA)

M.S. in Mathematics

2015

Pontificia Universidad Católica del Perú (PUCP)

B.A. in Economics

2014

PUBLISHED PAPERS

- 1. Posterior Distribution of Non-differentiable Functions, joint with Toru Kitagawa, José Luis Montiel Olea, and Jonathan Payne, *Journal of Econometrics*, Vol. 217 (1), pp. 161-175, 2020.
- 2. On the Robustness to Misspecification of α -posteriors and Their Variational Approximations, joint with Marco Avellana, José Luis Montiel Olea, and Cynthia Rush, **Journal of Machine Learning Research**, Vol. 23 (147), pp. 1-51, 2022.
- 3. The A/B Testing Problem with Gaussian Priors , joint with Eduardo M. Azevedo, David Mao, and José Luis Montiel Olea, *Journal of Economic Theory*, Vol. 210, pp. 1-23, 2023.
- 4. A User's Guide for Inference in Models Defined by Moment Inequalities, joint with Ivan A. Canay and Gaston Illanes. *Accepted at Journal of Econometrics*.

WORKING PAPERS

- 5. Representation Learning in Linear Factor Models, joint with José Luis Montiel Olea.
- 6. The out-of-sample prediction error of the \sqrt{LASSO} and related estimators, joint with José Luis Montiel Olea, Cynthia Rush, and Johannes Wiesel. Submitted
- 7. The Local Projection Residual Bootstrap for AR(1) Models. Submitted
- 8. Linear IV Model with Incomplete Data on the Instrumental Variable.

WORK IN PROGRESS

- 9. Inference on Treatment Effects under Covariate-Adaptive Randomization and Imperfect Compliance, joint with Federico Bugni, Mengsi Gao, and Filip Obradovic.
- 10. The return of the (smooth) function model.

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RESEARCH EXPERIENCE

* Research Assistant, Prof. Federico A. Bugni (Northwestern University). Summer 2022, Winter 2023

* Research Assistant, Prof. Ivan A. Canay (Northwestern University).

Fall 2020, Winter 2021

TEACHING EXPERIENCE

* Instructor, Econometrics Review, Northwestern University (Graduate). Summer 2023

Fall 2021

* Teaching Assistant, Econ 480-1, Northwestern University (Graduate).
* Teaching Assistant, Econ 480-3, Northwestern University (Graduate).

Spring 2021, 2022

★ Teaching Assistant, Econ 281, Northwestern University (Undergraduate). Winter 2022, Spring 2023

★ Teaching Assistant, Econ 329, Northwestern University (Undergraduate). Fall 2022

PROFESSIONAL EXPERIENCE

Referee Service

* AER: Insights.

Central Bank of Perú (BCRP)

★ Macro Modelling Division. May 2018 - Jul 2019

★ Financial Stability Division.
 (on leave 2015)
 May 2014 - Apr 2018

AWARDS, FELLOWSHIPS, AND SCHOLARSHIPS

\star Robert Eisner Graduate Fellowship: Northwestern University	2023
\star University Fellowship by The Graduate School: Northwestern University.	2019
\star Best Employee at Central Bank of Perú by leading the estimation team.	Jun 2018
\star CNpQ Scholarship: Brazilian Government Scholarship.	2015
\star IMPA Visiting Student Scholarship.	${\rm Jan}$ - Feb 2015
\star 61st Summer Program at BCRP approved with distinction.	2014
\star BEAS-PUCP Scholarship: for outstanding lower-income students.	2011-14
\star IMPA Summer Program Scholarship.	2009-10, 12-13
\star PUCP Scholarship: by outstanding performance in competitions abroad.	Aug 2009 - 2010
\star Silver Medal in the 24th & 23rd Iberoamerican Mathematical Olympiad.	2008 & 2009
* Bronze Medal in the 49th International Mathematical Olympiad, Spain.	2008