Illia Polovnikov

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Citizenship: Ukraine

EDUCATION

Clemson University — Clemson, SC
Ph.D. in Economics — 2023 (expected)
– Fields: Labor Economics, Growth and Development, Applied Econometrics
M.S. in Economic Analytics — 2022 (expected)

Kent State University — Kent, OH
M.A. in Economics — 2016

National Mining University — Dnipro, Ukraine
Master's Degree in Economic Cybernetics (with Honors) — 2015
Bachelor's Degree in Economic Cybernetics (with Honors) — 2014

WORKING PAPERS

"Childcare and Parenting as Skill Determinants: Evidence from a Large-scale Trial of an Early Childhood Education Program" with Jorge García and William Dougan, (Job Market Paper).

- We revisit a large-scale RCT program to show that prior evaluations omitted the important source of treatment effect heterogeneity by twinning status. Accounting for this source of heterogeneity allows us to uncover a large impact on singletons.

"Product De-reservation in Indian Manufacturing: Indirect Effects."

- I analyze the effects of a policy that lifted restrictions on small manufacturing firms in India. Using household survey data and a long difference regression framework, I study district-level labor market outcomes. I show that lifting restrictions increases employment in the manufacturing sector, and that this increase is mostly driven by women entering the labor market.

"Income Divergence: Long-run Cross-country Evidence."

- Using nonparametric methods and newly constructed cross-country data, I show evidence of income divergence among OECD countries prior to twentieth century.

WORK IN PROGRESS

"Predicting District-Level GDP in India Using Satellite Data" with Oleksandr Dudnev.

- In this project we investigate how satellite data coupled with common machine learning tools can help us correct missing data issues in district-level economic activity data for India. We also assess whether these new data and tools can help predict future economic activity.

SKILLS

- **Causal Inference:** Randomized Control Trial, Instrumental Variables, Regression Discontinuity, Difference-in-Differences, Event Studies, Synthetic Control
- **Machine Learning:** Supervised Learning (e.g., Linear/Logistic Regression, Regularized Models, Random Forest) and Unsupervised Learning (e.g., Clustering and Dimension Reduction)
- **Programming Languages:** Python (scikit-learn, numpy, pandas, geemap), R (tidyverse), SQL
- **Statistical Packages:** Stata
- **Other Skills:** Git, LaTeX, Microsoft Office Suite, Google Earth Engine (Python API), Bash.

Teaching Experience

Clemson University   Clemson, SC

Graduate Teacher of Record

- Taught courses as the instructor of record covering Principles of Microeconomics (Fall 2022), Money and Banking (Summer 2021, 2022; Fall 2021; Spring 2022), and Principles of Macroeconomics (Fall 2020; Spring 2021.)

Teaching Assistant

- Assigned as a teaching assistant to the following courses: Econometrics III (*graduate level*, Fall 2020), Principles of Macroeconomics (Spring 2020), Econometrics I (*graduate level*, Fall 2019) and Principles of Microeconomics (Fall 2019.)

Kent State University   Kent, OH

Part-time Teacher

- Taught Algebra for Calculus course as a part-time teacher (Fall 2017.)

Teaching Assistant

- Assigned as a teaching assistant to the following courses: Basic Algebra I and II (Fall 2017) and Algebra for Calculus Stretch (Spring 2017.)

Referee Service

Journal of Human Capital

Presentations

- Clemson University Labor Workshop   2021–Present
- Clemson University Macroeconomics Workshop   2019–2020
- Widening our horizons. Dnipro, Ukraine   April 2014

  The 9th International Forum for Students and Young Researchers. Keynote Speaker.
- Widening our horizons. Dnipro, Ukraine   April 2013

  The 8th International Forum for Students and Young Researchers.

Additional Education

- Tollison Teaching Workshop with Gail Hoyt (online)   May 2021

Selected Awards and Fellowships

- Hugh H. Macaulay Award for Outstanding Graduate Student, Clemson University   2019
- John E. Walker Department of Economics Assistantship, Clemson University   2018–2023
- Department of Economics Assistantship, Kent State University   2015–2017
- Opportunity Funds Program Awardee, U.S. Embassy in Kyiv   2015

Languages

- **English:** fluent
- **Ukrainian:** native
- **Russian:** native

Other

- **Residency:** Nonresident Alien