

ONIL BOUSSIM

+1-814-777-8607 | oib5044@psu.edu | <https://onilboussim.github.io/>

State College, Pennsylvania, United States

PROFILE

I'm a Ph.D. candidate at Pennsylvania State University. My research broadly focuses on theoretical and applied econometrics (education, labor, development). My most current projects are related to causal inference and sample selection problems.

EDUCATION

- **PENNSYLVANIA STATE UNIVERSITY** 2020- 2026
Ph.D. in Economics | Field : theoretical and applied econometrics State College, USA
- **ENSEA** 2016- 2019
Master in statistics and applied economics | Highest honors Abidjan, Cote d'Ivoire
- **INPHB** 2014-2016
Intensive foundation degree in mathematics and economics | highest honors Yamoussoukro, Cote d'Ivoire

PROFESSIONAL EXPERIENCE

- **Teaching Assistant** 2020–2025
Econometrics (PhD level , Master level), Development (Undergraduate) Penn State, USA
- **Research Assistant** 2021, 2023
Research assistant for Prof. Marc Henry Penn State, USA
- **Consultant** 2019-2020
PEJEDEC 3 Project with Senior Economist Waly Wane World Bank, Côte d'Ivoire

HONORS AND AWARDS

- Rosenberg Liberal Arts Centennial Scholarship, Penn State University, 2023
- Ranked 2nd nationally in the Scientific Track of the High School National Examination, Ministry of National Education, Cote d'Ivoire, 2015

WORK IN PROGRESS

- [1] **Non-linear Difference-in-Differences for Categorical Distributions (Job Market Paper)**
This paper develops a nonlinear Difference-in-Differences (DiD) framework to evaluate treatment effects on categorical distributions, such as vote shares, budget allocations, or demographic compositions. The proposed method captures shifts in the entire distribution rather than relying on mean outcomes, enabling more policy-relevant and interpretable insights in applications with compositional data.
- [2] **Correcting Sample Selection Bias in PISA Rankings**
This project investigates how survival bias, due to the fact that PISA surveys only students still in school at age 15, can distort international comparisons of educational outcomes. I develop a modification of the Heckman selection model to adjust for this selection bias and apply it to PISA 2018 data. The corrected rankings reveal substantial differences in performance estimates, highlighting the importance of accounting for sample selection.
- [3] **Estimating Treatment Effects under Sample Selection**
This paper addresses the dual challenges of endogenous treatment assignment and sample selection, which often arise in applied work, particularly in randomized controlled trials (RCTs) with noncompliance and attrition. I propose a semiparametric framework for identifying and estimating treatment effects under both sources of bias, providing more reliable inference in real-world experimental settings.

REFeree WORK

- Journal of Econometrics

SKILLS

- **Programming/ softwares:** R, Matlab , Julia, Latex (can easily learn any needed software)
- **Microsoft Office :** word, excel, powerpoint, vba

LANGUAGES

French : (Proficiency level), **English :** (Proficiency level)

SEMINAR AND CONFERENCES

2025 : First conference of RESA Alumni (Abidjan)

2024 : Optimal Transport and Distributional Robustness, Banff, Alberta

2024 : Africa Meeting of the Econometric Society (AFES), Abidjan, Côte d'Ivoire, 2024

REFERENCES

1. **Marc Henry**
Professor, Economics
Pennsylvania State University
Email: marc.henry@psu.edu
Phone: +1 (814) 865-0010
Relationship: [Thesis Advisor]
2. **Andres Aradillas-Lopez**
Professor, Economics
Pennsylvania State University
Email: aza12@psu.edu
Phone: +1 814 863-2157
Relationship: [Committee member]
3. **Sung Jae Jun**
Professor, Economics
Pennsylvania State University
Email: suj14@psu.edu
Phone: +1 814-865-6149
Relationship: [Committee member]
4. **Waly Wane**
Senior Economist
World Bank
Email: wwane@worldbank.org
Relationship: [Mentor]