N'guessan Kouakou Ezékiel TANO

Applied Econometrics & Machine Learning in Economics.

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PROFIL

Applied econometrics and causal machine learning for economics research. Strong experience with panel data, experimental designs, and heterogeneous treatment effect estimation. Seeking to contribute to academic research (RA / Predoc / PhD).

RESEARCH INTERESTS

- Applied Econometrics
- Causal Inference
- Machine Learning in Economics
- Treatment Effect Heterogeneity

EDUCATION

Paris School of Economics (P.S.E) – Ecole d'Economie de Paris   **Sept 2023 – Sept 2025**
Master's degree in Public Policy and Developement, <u>Grade:</u> Honors (Cum Laude)   *Paris, France*

<u>Relevant Coursework:</u>
- Econometrics Methods
- Machine learning in Economics
- Advanced Treatment Models

École Nationale Supérieure de Statistique et d'Économie Appliquée (ENSEA)   **Oct 2020 – Aug 2023**
Diplôme d'Ingénieur Statisticien Économiste   *Abidjan, Côte d'Ivoire*

<u>Relevant Coursework:</u>
- Descriptive statistics
- Data Analysis and Visualization
- Inferential Statistics

SKILLS

- **Software:** R (advanced), Python (Intermadiate), LaTeX, Git/Github
- **Languages:** English (*Proficient*), French (*Native*).
- **Econometrics**: Causal inference (FE, IV, DiD), bootstrap, Monte Carlo simulation.
- **Machine Learning (Econ)**: Regularized linear models (Lasso, Ridge, Elastic Net), Double ML, tree-based ML, GenericML for treatment heterogeneity.

RESEARCH EXPERIENCE & APPLIED PROJECTS

Research Project (Master's Thesis) – Paris School of Economics   **May 2025 – Aug 2025**
Under the supervision of Prof. Matthew Gordon   *Paris, France*
- Compiled, processed, and cleaned a five-wave LSMS-ISA household panel dataset in R for climate exposure assignment.
- Estimated causal impacts of crop adaptation to climate shocks using fixed effects and temperature-bin regressions.

Machine Learning in Economics Project: Facilitating Savings for Agriculture   **Feb 2025 – Apr 2023**
Worked under the supervision of Prof. Philipp Ketz   *Abidjan, Côte d'Ivoire*
- Replicated Brune et al. (2016) and extended the analysis using agricultural input expenditure as a key farm investment outcome.
- Estimated treatment heterogeneity across households and identify household size as a significant driver of heterogeneity.

Econometrics methods Project: Finite-Sample Rejection Probabilities in IV Model   **Feb. 2025 – June 2025**
Worked under the supervision of Prof. Philipp Ketz   *Paris, France*
- Designed Monte Carlo simulations to compare rejection probabilities under asymptotic vs bootstrap critical values.
- Implemented IV model and bootstrap procedures in R to analyze weak-instrument performance and size distortions.

Research Assistant – Directorate of Parc National des Forêts de France   **May 2024 – Aug 2024**
Worked under the supervision of Margaux Jacob and Prof. Tina Rambolinaza   *Paris, France*
- Conducted a literature review and designed a Discrete Choice Experiment (DCE) to elicit preferences for renewable energy policy
- Performed data analysis and contributed to the write-up of the project's key empirical insights.

Applied Econometrics Project – Paris School of Economics   **Feb 2024 – Jul 2024**
Worked under the supervision of Prof. Jérémie Gignoux   *Paris, France*
- Replicated Burke and Emerick (2016) in Europe using Copernicus climate data (R), and display external validity difference.
- Analyzed data, wrote, and presented the research paper summarizing the study's key findings.

TEACHING EXPERIENCE

Teaching Assistant   **Sept 2024 – Dec 2024**
University of Paris 1, Panthéon Sorbonne - University of Paris Cité   *Paris, France*
- Taught undergraduate tutorials (TD) in Mathematics (L2) and Macroeconomics (L3).
- Taught tutorials (TD) in Political Economy to undergraduate students at level 2.

REFERENCES

- **Dr Gomez AGOU :** Harvard Center for International Development - CID Senior Fellow gomezagou@hks.harvard.edu
- **Prof. Matthew GORDON :** My Master's Thesis Supervisor, at Paris School of Economics —matthew.gordon@psemail.eu
- **Prof. Oliver VANDEN EYNDE :** My Master Director at Paris School of Economics — o.vandeneynde@psemail.eu