

Alpha LY, Ph.D. in Economics

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Research interests

Microeconomics and macroeconomics theory, Quantitative and qualitative methodologies, Applied research projects with socio-economic impact, Power sector regulation and private investment, Industrial organization, Firm productivity, Energy access, Energy poverty, Energy efficiency, Renewable energy, Financial inclusion, Financial globalization, Inequality, Environmental management, Climate change, Data analysis, Econometrics, Impact evaluation, Randomized controlled trial (RCT).

Education

- 2020 – 2023 **Ph.D. in Economics, Paris Dauphine-PSL University**, Paris (France).
Thesis title: *Electrification, Environment, and Economic Development in Developing Countries*.
Supervisors: *Anna Creti & Raja Chakir*. **Ph.D. defended on October 20, 2023**.
Chapters of the thesis: Access to electricity and household practices potentially contributing to forest loss in Côte d'Ivoire (**Chapter 1**), Electrification and deforestation in Côte d'Ivoire: A spatial econometrics analysis (**Chapter 2**), Electricity sector regulation and private investment in power generation: Evidence from Africa (**Chapter 3**), Power constraints and firm-level total factor productivity in developing countries (**Chapter 4**).
- 2019 – 2020 **Pre-Doctoral in Economics, Mines ParisTech**, Paris (France).
Supervisors: *Anna Creti & Raja Chakir*.
Pre-doctoral year objectives: training, data research, bibliographical research, seminars, conferences and writing, submission of the thesis project to Université Paris Dauphine-PSL.
- 2017 – 2019 **Master in Development Economics, Clermont Auvergne University - CERDI**, Clermont-Ferrand (France).
Thesis title: *Impact of non-double taxation treaties on FDI flows, an application by Centrality*. 
Supervisor: *Gregoire Rota Graziosi*.
Specialization: Advanced econometrics, industrial economics, public policy, environmental policy, impact assessment, introduction to research, game theory, microeconomics, econometrics, public economics, economics of regulation and PPPs, survey techniques, development economics.
- 2016 – 2017 **Bachelor in Economics, Clermont Auvergne University**, Clermont-Ferrand (France).
Specialization: Development economics, macroeconomics and forecasting, macrodynamics, optimization, comparative demography, international institutions, economic theory.
- 2014 – 2016 **Bachelor in Statistics, National School of Statistics and Applied Economics - ENSEA**, Abidjan (Côte d'Ivoire).
Specialization: surveys, polls, inferential statistics, planning, macroeconomics, mathematics, probability, statistics, programming, microeconomics.

Experience

- 2024 – 2025 **Temporary Teaching and Research Assistant (ATER)**, Evry Paris-Saclay University (Evry, France).
Assignment: **Course preparation** (exercises and assessments, taking into account educational objectives), **Teaching** (lectures and tutorials), and **Evaluation of knowledge** (proposing exam subjects, taking part in exams correction, and giving constructive feedback to students).
- 2023 – 2024 **Temporary Teaching and Research Assistant (ATER)**, Paris Dauphine-PSL University (Paris, France).
Assignment: **Course preparation** (elaboration of lesson plans, course materials, exercises and assessments, taking into account educational objectives, updating courses), **Teaching** (lectures and tutorials), and **Evaluation of knowledge** (proposing exam subjects, taking part in exams correction, and giving constructive feedback to students).
- jan – jun 2023 **World Bank Group Africa Fellow**, The World Bank, DECRG, Washington, DC (United States).
Assignment: (i) *Mobile Money and Power Uptake in Developing Countries*; and (ii) *The non-pricing determinants of households' decision to connect to the grid electricity in Benin (RCT)*.
- 2020 – 2022 **Associate Researcher**, Climate Economics Chair, Energy and Prosperity Chair, and Industrial Economics Chair of CERNA & UM6P, Paris (France).
Assignment: *Participate in running the weekly seminars and annual conferences of the three Chairs and administrative tasks (drafting annual reports), support for interns and young PhD students, participation in the CEC Reading Club.*
- 2019 – 2022 **Junior Economics Lecturer**, EMINES – School of Industrial Management (Ben Guérir, Morocco).
Assignment: **Teaching** (lectures only), and **Evaluation of knowledge** (supervision of project groups, proposal of exam subjects, participation in marking).
- jul – dec 2021 **Consultant**, Tony Blair Institute for Global Change - TBI, London (United Kingdom).
Assignment: *Services on preparation and implementation of the 5th edition of the Africa Energy Marketplace (AEMP 21) hosted by African Development Bank (AfDB). Scope of work: (i) Contribute to AEMP energy sector analysis and diagnostics, (ii) Contribute to AEMP event content development, (iii) Contribute to AEMP event planning and management, and (iv) Contribute to the key deliverables.* 📄
- apr – sep 2019 **Intern**, French Treasury, France Embassy in Côte d'Ivoire, Abidjan (Côte d'Ivoire).
Thesis title: *The Effects of Fiscal Consolidation in West Africa.*
- may – jul 2016 **Intern**, National Institute of Statistics - INS, Abidjan (Côte d'Ivoire).
Thesis title: *Monitoring and Evaluation of Côte d'Ivoire 2016-2020 National Development Plan indicators.*

Skills

- Languages English (fluent), French (native).
- Softwares Stata, R, Eviews, Gams, QGIS, ArcGIS, Microsoft Office, GitHub, L^AT_EX.
- Misc. Field Research, RCT, Consultancy, Teaching, Peer Review, CERDI Alumni Coordinator.

Research production

Publications

- 1 Apeti, A. E., Bambe, B.-W.-W., Edoh, E. D., & Ly, A. (2025). Wealth inequality and Carbon inequality. *Ecological Economics*, 2025, vol. 227, p. 108406. Retrieved from <https://doi.org/10.1016/j.ecolecon.2024.108406>
- 2 Apeti, A. E., & Ly, A. (2024b). Power Constraints and Firm-Level Total Factor Productivity in Developing Countries. *Energy*, 2024, vol. 309, p. 132871. Retrieved from <https://doi.org/10.1016/j.energy.2024.132871>
- 3 Ly, A., Chakir, R., & Creti, A. (2024b). Electrification or deforestation? Evidence from household practices in Côte d'Ivoire. *Energy Economics*, 2024, vol. 136, p. 107717. Retrieved from <https://doi.org/10.1016/j.eneco.2024.107717>
- 4 Apeti, A. E., & Ly, A. (2023). Power Constraints and Firm-Level Total Factor Productivity in Developing Countries. *Policy Research Working Paper Series 10510*, The World Bank. Retrieved from <http://documents.worldbank.org/curated/en/099703406272317386/IDU0431050dd0a9530424d0a8c80fd5ee66c49eb>

Working papers

- 1 Apeti, A. E., Diouf, M., Edoh, E. D., & Ly, A. (2024). *Media and Clean Cooking: Evidence From Sub-Saharan African Households*.
- 2 Apeti, A. E., & Ly, A. (2024a). *More light for more sovereign debt default?*
- 3 Barry, M. S., Creti, A., & Ly, A. (2024). *Does Financial Inclusion Facilitate Solar Panel Adoption? Evidence from Tanzania*.
- 4 Creti, A., Ly, A., & Sanin, M.-E. (2024). *Energy Poverty as a Climate Justice dimension: comparing Côte d'Ivoire, Bolivia and France*. Retrieved from <https://www.chaireeconomieduclimat.org/publications/energy-poverty-has-a-justice-dimension-comparing-bolivia-cote-divoire-and-france/>
- 5 Dakpogan, A., Lang, M. E., & Ly, A. (2024). *Understanding interlocking barriers to formal electrification: evidence from subsidized prepaid meters in Benin*.
- 6 Lang, M. E., & Ly, A. (2024). *Mobile Money has Complementary Effects on Energy Access in Developing Countries*.
- 7 Ly, A. (2024a). *Financial Globalization and Tropical Deforestation*.
- 8 Ly, A. (2024b). *Independent Regulator and Private Investment: New Evidence from Power Generation in Africa*.
- 9 Ly, A. (2024c). *Scaling Up Renewables to Phase Down Fossil Fuels: Does Financial Globalization Matter?*
- 10 Ly, A., Chakir, R., & Creti, A. (2024a). *Electrification and Deforestation in Côte d'Ivoire: a spatial econometric analysis*.

Presentations

- 1 Ly, A., & Lang, M. E. (2024). Digital money leverage: Mobile Money and Power Uptake in Developing Countries. In *Global Energy Transition and Development: Africa at Crossroads*, Paris, France. Retrieved from <https://www.dropbox.com/scl/fi/324dmftf75lip98tj4u3d/Program-Energy-Transition-and-Development.pdf?rlkey=i3s8zuxdy4xxmbgzdiw56rzms&e=1&dl=0>
- 2 Ly, A., & Apeti, A. E. (2023). Power Constraints and Firm-Level Total Factor Productivity in Developing Countries. In *LEDa PhD Presentation Workshop*, Paris, France. Retrieved from <https://leda.dauphine.fr/fr/seminaire-externe/phd-presentation-workshop.html>

- 3 Ly, A., Chakir, R., & Creti, A. (2023). Electrification and Deforestation in Côte d'Ivoire: a spatial econometric analysis. In *The Seventh research seminar of the ACSS-PSL Institute*, Paris, France. Retrieved from <https://acss-dig.psl.eu/fr/seminaires/acss>
- 4 Ly, A., & Lang, M. E. (2023). Digital money leverage: Mobile Money and Power Uptake in Developing Countries. In *World Bank Group Africa Fellowship BBL Series*, Washington DC, Etats-Unis. Retrieved from <https://thedocs.worldbank.org/en/doc/07fba8956883b46c4afcebdc446065c3-0010012023/original/2023-Africa-Fellows-Profile.pdf>
- 5 Creti, A., & Ly, A. (2022). Électrification en Afrique: un immense retard à rattraper. In *Journée spéciale énergies sur RFI, le Décryptage par Gaëtan Plenet*, Issy-les-Moulineaux, France. Retrieved from <https://rfi.my/8uSt>
- 6 Ly, A., Chakir, R., & Creti, A. (2022a). Power Sector Regulation and Private Sector Participation in Africa. In *43rd International Association for Energy Economics (IAEE) International Conference*, Tokyo, Japon. Retrieved from <https://www.iaee.org/proceedings/article/17691>
- 7 Ly, A., Chakir, R., & Creti, A. (2022b). Rural Electrification and Deforestation in Côte d'Ivoire: a Pseudo-Panel approach. In *27th Annual Conference of the European Association of Environmental and Resource Economists (EAERE)*, Rimini, Italie. Retrieved from http://www.eaere-conferences.org/doc/upload/27th_Annual_Conference_of_the_European_Association_of_Environmental_and_Resource_Economists_final20220628175444.pdf
- 8 Ly, A., Chakir, R., & Creti, A. (2022c). Spatial analysis of the impacts of Electrification on Deforestation in Côte d'Ivoire. In *20th International Workshop on Spatial Econometrics and Statistic (SEW)*, Lille, France. Retrieved from https://sew2022.sciencesconf.org/data/pages/Program_final_11.pdf
- 9 Ly, A., Chakir, R., & Creti, A. (2021a). Rural Electrification and Deforestation Dynamics: Evidence from Côte d'Ivoire. In *Africa Meeting of the Econometric Society (AFES)*, Abidjan, Côte d'Ivoire. Retrieved from <https://www.econometricsociety.org/meetings/schedule/2021/06/03/2021-african-meeting-hybrid-format>
- 10 Ly, A., Chakir, R., & Creti, A. (2021b). Rural Electrification and Deforestation Dynamics: Evidence from Côte d'Ivoire. In *Journées de Microéconomie Appliquée (JMA)*, Annecy, France. Retrieved from <https://jma2021.sciencesconf.org/program>
- 11 Ly, A., Chakir, R., & Creti, A. (2021c). Rural Electrification and Deforestation Dynamics: Evidence from Côte d'Ivoire. In *CE2-2020: 3rd International Conference on "Econometrics for Environment"*, Paris, France. Retrieved from http://www.meshs.fr/page/datas/files/docs/poster_final.pdf
- 12 Ly, A., Chakir, R., & Creti, A. (2021d). Rural Electrification and Deforestation in Côte d'Ivoire. In *Power to Empower Emerging Africa, Session posters*, Ben Guérir, Maroc. Retrieved from <http://www.chair-energy-prosperity.org/wp-content/uploads/2020/06/event2020-program-compte-rendu-conf-power-to-empower-africa.pdf.pdf>

References

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