

Albert Duodu

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Education

PhD in Economics <i>Lund University, Sweden</i>	May, 2024 (expected)
MSc. Economics <i>Lund University, Sweden</i>	2017 – 2019
B.A. Economics <i>University of Ghana, Legon, Ghana</i>	2010 – 2014

Visits

University of Oxford <i>Host: Niclas Moneke</i>	September, 2023
University of Warwick <i>Host: Ludovica Gazze and Christian Soegaard</i>	February, 2023 – July 2023
London School of Economics <i>Warwick-CFM-Vienna Workshop: Maarten De Ridder</i>	March 2023
University of Copenhagen <i>Summer School: Arne Henningsen</i>	August 2022

Research Fields

International Trade, Environmental Economics, Applied Microeconomics

References

Maria Persson <i>Department of Economics, Lund University</i>	Associate Professor <i>maria.persson@nek.lu.se</i>
Joakim Gullstrand <i>Department of Economics, Lund University</i>	Professor and Head of Department <i>joakim.gullstrand@nek.lu.se</i>
Ludovica Gazze <i>Department of Economics, University of Warwick</i>	Associate Professor <i>Ludovica.Gazze@warwick.ac.uk</i>
Zouheir El-Sahli <i>School of Business and Law, Frederik University</i>	Associate Professor <i>bus.ez@frederick.ac.cy</i>
Fredrik N G Andersson <i>Department of Economics, Lund University</i>	Associate Professor <i>fredrik_n_g.andersson@nek.lu.se</i>

Teaching and Supervision

Masters and Bachelor Level Supervision <i>Lund University</i>	2022 - present
Main Lecturer – International Trade Theory: 3rd year BSc. <i>Lund University</i>	2021 - present

Main Lecturer – International Economics: 2nd year BSc. <i>Lund University</i>	2021 - present
Teaching Assistant – Advanced Trade Theory, MSc. <i>Lund University</i>	2021 -present
Data Science Support <i>Lambda Data Science Society, Lund University</i>	2023 - present
Erasmus+ Teaching Staff Mobility <i>University of Ghana</i>	2022
Teaching Assistant – Econometrics and International Trade: 4th year B.A. <i>University of Ghana</i>	2015 - 2017

Presentations

2023: Seminar, Norwegian School of Economics, 3rd PhD Conference on Sustainable Development, Lund University; NOITS Annual Workshop 2023 on International Economics, Seminar; University of Oxford ; Swedish Network for European Studies in Economics and Business; University of Warwick, Macro Workshop; Warwick-CFM-Vienna Global Macro Workshop
2022: Swedish Network for European Studies in Economics and Business; Lund University Seminar
2021: Swedish Network for European Studies in Economics and Business

Service

Part of conference organization team: Swedish Network for European Studies in Economics and Business (2021 - 2023)
Referee: Journal Empirical Economics, Journal of Productivity Analysis, African Review of Economic and Finance.
Committee: PhD Admission Committee Member, Department of Economics, Lund University, Governing Body Representative, Lund’s Doctoral Student Union
Design Editor : African Review of Economic and Finance, Ghanaian Journal of Economics, Journal of African Political Economy and Development, Journal of Construction and Built Environment, Journal of Indigenous and Shamanic Studies

Grants & Awards

Jan Wallander and Tom Hedelius Scholarship for international research <i>SEK250,000</i>	2023
Erasmus + International Credit Mobility <i>€3,500</i>	2022
Arne Ryde Foundation scholarship <i>SEK40,000</i>	2021
Finalist <i>World Econometric Game Championship, Amsterdam</i>	2019
Swedish Institute (SI) Study Scholarship <i>Ministry of Foreign Affairs of Sweden</i>	2017
Prof. Kwadwo Asenso-Okyere’s Prize for Best Student in Economics <i>University of Ghana</i>	2015

Production in manufacturing firms in high income countries is generally becoming cleaner. Some of this trend has been shown to be due to adoption of new technologies, but carbon offshoring – i.e. when dirty production at home is replaced with imports of carbon-intensive products from abroad – may be an additional factor. If so, this is concerning, since it risks undermining climate policies by simply moving emissions to countries with laxer regulations. This is the focus of this paper. Leveraging rich product-level data encompassing production, trade, and emissions from Swedish manufacturing firms, the paper examines how firms adjust their production decisions in response to supply shocks within their trading partner markets. Employing a combination of shift-share instrumental variables and a difference-in-difference estimation approach, the analysis reveals that carbon offshoring activities leads to a substantial reduction in average production-based emission intensity. In fact, a 10% increase in the import of energy-intensive goods can result in firms' production processes becoming 5% cleaner. This suggests that carbon leakage is a valid policy concern. However, my results also show that the positive effect on production-based emissions is partly counteracted by a negative effect through increased transportation emissions, and it is not clear what the overall effect on emissions will be. Further, the effect of offshoring on production emissions also depends on the type of offshoring. For instance, offshoring in the form of FDI has a much larger emissions-reducing effect than offshoring in the form of imports of inputs not produced in-firm.

Energy Cost and Competitiveness Risk

While raising the carbon price is an effective tool for decreasing reliance on carbon-intensive production sources, it has also raised substantial concerns among policymakers that higher energy cost will render manufacturing firms less competitive and potentially lead to increased consumer prices. In this paper, I examined the impact of energy prices on manufacturing firms by using a shift-share instrument and an event-style difference-in-difference approaches that isolate the exogenous variation in firm-specific energy prices. The analysis reveals a dual impact of energy price inflation. On one hand, energy price shock contributes to positive environmental outcomes by reducing energy consumption and CO_2 emissions. On the other hand, it exerts detrimental effects on firms' productivity, employment, and the risk of potential carbon leakage. Furthermore, firms demonstrate a propensity to shift the cost burdens to consumers, exacerbating general inflation in the economy. Additional results show that the negative effect on employment affects highly skilled workers disproportionately: employment among workers with university degrees fell considerably in the short run, while those with high school degrees increased. The most affected firms are high-energy intensive and non-EU-ETS firms. Overall, the findings suggest a trade-off between environmental and economic goals due to increasing energy taxes.

Green Manufacturing Transitioning - The Role of Localized Import Competition

Joint with Z. El-Sahli

There is evidence that increased import competition can lead to a reduction in domestic emissions, as domestic producers may adopt more efficient production processes in order to remain competitive with imported goods. However, this effect may not always be present, especially when nationwide import competition is assumed. We contribute to the literature by investigating whether the distance between producers and importers, within a country, matters for import competition effects on firm's environmental performance. Using detailed geographical information about the

location of all manufacturing firms in Sweden during the period 2005-2014, we find evidence that domestic production becomes more energy efficient when imports increase. However, if producers are in close proximity with polluting firms, the impact of import exposure falls. In addition to the importance of the geographical pattern within a country, our findings show that the average effect of import competition masks significant variations across firms and products. Highly productive firms respond to import competition by improving environmental performance. These firms are also more likely to reduce production of (dirty) products while continuing to produce core ones

Environmental Neglect or Cost Reduction? Impact of Carbon Offshoring on Firms' Pollution Abatement

Joint with Z. El-Sahli

Policy Papers

Moonlighting Behavior among Migrants: Determinants and Implications for Wellbeing in South Africa

Joint with E. Quarshie, I. Alagidede, E.T.Tosi

How Free is Movement in Africa? – Assessing the Ease of Travel in Anticipation of the AfCTA

Joint with E. Quarshie, D. A. Pupilampu

Aid Fragmentation and Aid Effectiveness in Sub-Saharan Africa *Joint with B. Senadza, R. Addison*

Skills

Programming Languages: Stata, Python, R, Matlab

Web Development: HTML, CSS+, Java

Languages: Akan(native), English (fluent), Swedish (intermediate)