Albert Duodu

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Education	
Postdoc	2024- present
Helsinki Graduate School of Economics, Helsinki PhD in Economics	May, 2024
Lund University, Sweden	
MSc. Economics	2017 - 2019
Lund University, Sweden B.A. Economics	2010 - 2014
University of Ghana, Legon, Ghana	
Visits	
University of Oxford	September, 2023
Host: Niclas Moneke	- · · ·
University of Warwick	February, 2023 – July 2023
Host: Ludovica Gazze and Christian Soegaard	
London School of Economics	March 2023
Warwick-CFM-Vienna Workshop: Maarten De Ridder	
University of Copenhagen	August 2022
Summer School: Arne Henningsen	_

Research Fields

International Trade, Environmental Economics, Applied Microeconomics

References

Maria Persson	Associate Professor
Department of Economics, Lund University	maria.persson@nek.lu.se
Joakim Gullstrand	Professor and Head of Department
Department of Economics, Lund University	joakim.gullstrand@nek.lu.se
Ludovica Gazze	Associate Professor
Department of Economics, University of Warwick	Ludovica.Gazze@warwick.ac.uk
Zouheir El-Sahli	Economist
International Monetary Fund	ZEl-Sahli@imf.org
Fredrik N G Andersson	Associate Professor
Department of Economics, Lund University	$fred rik_n_g. and erss on @nek.lu.se$

Teaching and Supervision

Main Lecturer – Economics of Global Challenges: 2nd year BSc.	2025 - present
Aalto University	
Masters and Bachelor Level Supervision	2022 - 2025
Lund University	
Main Lecturer – International Trade Theory: 3rd year BSc.	2021 - 2025
Lund University	
Main Lecturer – International Economics: 2nd year BSc.	2021 - 2025
Lund University	
Teaching Assistant – Advanced Trade Theory, MSc.	2021 -2025
Lund University	
Data Science Support	2023 - present
Lambda Data Science Society, Lund University	
Erasmus+ Teaching Staff Mobility	2022
University of Ghana	
Teaching Assistant – Econometrics and International Trade: 4th year B.A.	2015 - 2017
University of Ghana	

Presentations

2025: Trade workshop and seminar, LSE; Using Nordic microdata to solve environmental problems, University of Helsinki (GRETA), NAERE 2025 Workshop; 2025 EAERE Conference (expected);

2024: 70th Anniversary Conference of the Yrjö Jahnsson Foundation on Climate change and inequality, Helsinki; Majvik PhD Workshop, Helsinki;

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

Assistant 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

Helsinki Graduate School of Economics (HGSE) $\pounds 6,100$

Jan Wallander and Tom Hedelius Scholarship for international research	0009
SEK220,000	2023
Erasmus + International Credit Mobility	
€3,500	2022
Arne Ryde Foundation scholarship	
SEK40,000	2021
Finalist	
World Econometric Game Championship, Amsterdam	2019
Swedish Institute (SI) Study Scholarship	
Ministry of Foreign Affairs of Sweden	2017
Prof. Kwadwo Asenso-Okyere's Prize for Best Student in Economics	
University of Ghana	2015

Research

Carbon Offshoring and Manufacturing Clean-up

Job Market Paper

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.

Environment and the Economy: Firm-level responses to energy price shock

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

It is established in the literature that firms facing import competition may experience efficiency gains. However, it is unclear whether such gains extend to the environmental behavior of the firms. This paper contributes to the literature by examining how local import competition — measured across different spatial dimensions within Sweden — affects firms' CO_2 emission intensity. Leveraging detailed geographic data on the location of all Swedish manufacturing firms, we provide robust evidence that increased local import competition leads to lower emissions at the firm level, with the effect diminishing as the distance between producers and importers increases. Our findings indicate that relying on national-level measures of import competition may significantly underestimate the true environmental impact of trade shocks. We identify two primary mechanisms behind these reductions: (i) an efficiency-enhancing effect, where firms experience gains in total factor productivity, higher value-added, and lower marginal costs; and (ii) a product-mix effect, where firms reallocate production away from emission-intensive goods toward cleaner alternatives. Additionally, we find little evidence of firms relying on carbon offshoring as a primary response to import competition. Instead, we observe a stronger reliance on investment in pollution abatement, suggesting that firms adapt by improving their environmental technologies rather than shifting emissions abroad.

Carbon Border Adjustments and the Geography of Global Supply Chains

Economy-Wide Impact of Carbon Taxes on Import: Evidence from Sweden

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. Puplampu
 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)