

# Albert Duodu

Department of Economics  
Aalto University  
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## Education

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| <b>Postdoc</b><br><i>Helsinki Graduate School of Economics, Helsinki</i> | 2024- present |
| <b>PhD in Economics</b><br><i>Lund University, Sweden</i>                | May, 2024     |
| <b>MSc. Economics</b><br><i>Lund University, Sweden</i>                  | 2017 – 2019   |
| <b>B.A. Economics</b><br><i>University of Ghana, Legon, Ghana</i>        | 2010 – 2014   |

## Visits

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

## Research Fields

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International Trade, Environmental Economics, Applied Microeconomics

## References

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| <b>Maria Persson</b><br><i>Department of Economics, Lund University</i>         | Associate Professor<br><i>maria.persson@nek.lu.se</i>                  |
| <b>Joakim Gullstrand</b><br><i>Department of Economics, Lund University</i>     | Professor and Head of Department<br><i>joakim.gullstrand@nek.lu.se</i> |
| <b>Ludovica Gazze</b><br><i>Department of Economics, University of Warwick</i>  | Associate Professor<br><i>Ludovica.Gazze@warwick.ac.uk</i>             |
| <b>Zouheir El-Sahli</b><br><i>International Monetary Fund</i>                   | Economist<br><i>ZEl-Sahli@imf.org</i>                                  |
| <b>Fredrik N G Andersson</b><br><i>Department of Economics, Lund University</i> | Associate Professor<br><i>fredrik_n_g.andersson@nek.lu.se</i>          |

### *Teaching and Supervision*

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

### *Presentations*

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**2025:** Trade workshop and seminar, LSE; Using Nordic microdata to solve environmental problems, University of Helsinki (GRETA), NAERE 2025 Workshop; 2025 EAERE Conference;  
**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, 3<sup>rd</sup> 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*

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**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*

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| <b>Helsinki Graduate School of Economics (HGSE)</b><br>€6,100 | 2025 |
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| <b>Jan Wallander and Tom Hedelius Scholarship for international research</b><br><i>SEK250,000</i> | 2023 |
| <b>Erasmus + International Credit Mobility</b><br><i>€3,500</i>                                   | 2022 |
| <b>Arne Ryde Foundation scholarship</b><br><i>SEK40,000</i>                                       | 2021 |
| <b>Finalist</b><br><i>World Econometric Game Championship, Amsterdam</i>                          | 2019 |
| <b>Swedish Institute (SI) Study Scholarship</b><br><i>Ministry of Foreign Affairs of Sweden</i>   | 2017 |

## Research

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### 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.

### Green Manufacturing Transitioning - The Role of Localized Import Competition

*Joint with Z. El-Sahli*

*Submitted*

We examine how local import competition — measured across different spatial dimensions within Sweden — affects the  $CO_2$  emission intensity of manufacturing firms in Sweden. Leveraging detailed geographic data on the location of all Swedish manufacturing firms, we provide 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) a pro-competitive efficiency-enhancing effect, where firms experience gains in total factor productivity, increasing value-added, lower marginal costs, and higher markups; and (ii) a product-mix effect, where firms reallocate production away from emission-intensive goods toward cleaner alternatives. Additionally, we find some evidence of firms relying on carbon offshoring as a response to import competition, as well as reliance on investment in pollution abatement, suggesting that firms adopt a mix of strategies to deal with increasing import competition.

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| Economy-Wide Impact of Carbon Taxes on Import: Evidence from Sweden     | <i>Submitted</i>     |
| Environment and the Economy: Firm-level responses to energy price shock | <i>Working Paper</i> |
| Carbon Border Adjustments and the Geography of Global Supply Chains     | <i>In Progress</i>   |

#### *Development Economics Papers*

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| Public-Private Sector Wage Gap in Ghana: Single Spine Pay Policy to the Rescue?            |                    |
| When the Lights Go Out: Electricity Outages and the Economic Lives of the Poor in Africa   | <i>Draft soon</i>  |
| Blackouts, Consumption Smoothing, and Adaptation Mechanisms in African Households          | <i>In Progress</i> |
| Power and Public Trust: The Fiscal and Institutional Consequences of Electricity Shortages | <i>Draft soon</i>  |

#### *Policy Papers*

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| Moonlighting Behavior among Migrants: Determinants and Implications for Wellbeing in South Africa | <i>Joint with E. Quarshie, I. Alagidede, E.T.Tosi</i> |
| How Free is Movement in Africa? – Assessing the Ease of Travel in Anticipation of the AfCTA       | <i>Joint with E. Quarshie, D. A. Pupilampu</i>        |
| Aid Fragmentation and Aid Effectiveness in Sub-Saharan Africa                                     | <i>Joint with B. Senadza, R. Addison</i>              |

#### *Skills*

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**Programming Languages:** Stata, Python, R, Matlab  
**Web Development:** HTML, CSS+, Java  
**Languages:** Akan(native), English (fluent), Swedish (intermediate)