

# Modeste Dayé

## Development Economist

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**Key Skills:** Teach with innovative tools, Project management, collaborate, communicate results.

**Areas of Expertise:** Development economics Gender analysis Poverty Transport economics & Environment

## EDUCATION

### Ph.D. in Economics

University of Namur

Nov 2020

Belgium

Thesis title: Essays in development economics: On households prosocial and financial behaviors.

Thesis committee: D. Acclassato; J-M Baland; S. Dercon; B. Decerf; R. Houssa; P. Reding.

### Master of Research in Economics

Toulouse School of Economics

Sept 2013 – June 2014

France

### Advanced master in International & Development Economics

Universities of Namur and Louvain-la-Neuve

Sept 2012 – June 2013

Belgium

### M.Sc. in Applied Macroeconomics

University of Abomey Calavi

Sept 2010 – June 2011

Benin

## RESEARCH AND TEACHING EXPERIENCE

### Research:

- Studied various research topics in development economics covering women empowerment, subjective well-being analysis, household economics, financial inclusion (mobile money, access to credit).
- Impact evaluation of access to basic financial services (savings accounts) on 3000 individuals (RCT).
- Impact evaluation of unconditional cash transfers on 2000 vulnerable households in Chad (RDD).
- **Publications and Research Documents:** Kandpal, Schnitzer, and Dayé 2023; Dayé, Modeste 2022; Akim, Ky, et al. 2023; Dayé and LeMay-Boucher 2023; Dayé, Modeste 2018; Dayé, Houssa, and Reding 2015; Dayé, Houssa, and Reding 2016.

### Teaching: Université Catholique de Lille

- Aspects économiques du développement durable (2023-2024)
- Data Analysis with R (2021-2024)
- Elements of Econometrics with R (2021-2024)

### Teaching : Université de Namur (2014-2021)

180 hours yearly teaching activities : Econometrics, Globalisation & macroeconomic policies, Fluctuations & Development, Stratégie et Décisions Economiques, Microéconomie, Macroéconomie.

## CONSULTING EXPERIENCE

### Senior Consultant

Stratec

Since 2021

Brussels

- Study tender specifications from public and private institutions, methodological proposals, budget and planning proposals.
- Use discrete choice models to analyze mode and route choices in transport economics.
- Lead various studies and socio-economic evaluation of transport infrastructure projects: roads, railways, rivers, and reforms in biodiversity laws.

### Impact Evaluation Expert

ADE

Jan-Aug 2021

Remote

- Organized data collection in selected countries and contributed to a country chapter assessing the socio-economic impact of COVID-19 in Sub-Saharan Africa (with a focus on education, health, and employment).

### Impact Evaluation Coordinator (Consultant)

World Bank

July 2020-June 2021

Remote

- Coordinated a regional impact evaluation project on economic empowerment for demographic dividend in the Sahel (6 countries). Oversaw research protocol, organized data collection, analyzed data, wrote reports, and disseminated results.

### Economist, Consultant

World Bank

Jan 2019-Sept 2019

Washington, DC, USA

- Conducted an impact evaluation of cash transfers to households (2000 households) in the client country.
- Data processing, econometric estimations, and analysis of results (report see Kandpal, Schnitzer, and Dayé 2023).

## LANGUAGES

French



English



## IT & PROGRAMMING

Stata, R, Python



Eviews, Matlab, Macrobond



Latex, Microsoft Office



## ORAL PRESENTATIONS (SELECTED)

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- Internal seminar at the Laboratory of Analysis of Transformations and Adaptations (LASTA), University of Rouen, December 2023.
- Internal seminar at Heriot-Watt University (Scotland), October 2023.
- Internal seminar at the Center for Research on Development Economics, Namur, April 2020.
- French Economic Science Association Congress (AFSE), Orleans 2019, France.
- **World Bank** Africa Fellowship seminar series 2019, Washington, DC, USA.
- Center for Studies on African Economies (CSAE) 2019, **University of Oxford** (UK).
- Econometric Society Meeting for Africa 2018, Cotonou, Benin.

## THESES SUPERVISION AND OTHERS

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- **Master's Thesis:** Determinants of private sector financing in Sub-Saharan Africa: a case study of Burkina Faso, defended by B. Bandaogo (2018).
- **Master's Thesis:** Structural transformation and economic growth in South Africa, by J. Mewamba (2021).
- **Master's Thesis:** Corporate cash holdings and investment surrounding the financial crisis in South Africa, by D. Lemaître (2021).
- Elected representative of the faculty to the university's scientific body council (2015-2017).
- Member of the organizing committee: Joint conference between the European Association of Economic Science, the Econometric Society, and the School of Economics of Toulouse (2014), and doctoral seminars in Namur (2017-2019).

## RESEARCH VISITS

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- **Research Stay**, Department of Economics, University of Heriot-Watt, Scotland (UK) **October 2023.**
- **Mobility (1 day per week)**, Department of Economics, LEM, University of Lille **Oct-Dec. 2020.**
- **Research Stay**, Department of Economics, University of Heriot-Watt, Scotland (UK) **Nov. 2018.**
- **Research Stay**, Department of Economics, University of Oxford **Sept-Oct. 2018.**

## RESEARCH PAPERS & PUBLICATIONS

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### Journal Articles

- Akim Al-Mouksit and **Dayé, Modeste**, Yaya Ky, et al. (2023). "Credit constraints, agricultural productivity and household welfare in Burkina Faso: a gender perspective". In: *Working paper (Submitted)*.
- **Dayé, Modeste** and Philippe LeMay-Boucher (2023). "Contrasting Impacts from two Formal Savings Devices: Evidence from a field experiment in Benin". In: *Working paper*.
- Kandpal, Eeshani, Pascale Schnitzer, and **Modeste Dayé** (2023). "Effects of cash transfers on women's productive activities: evidence from an ultra-poor setting". In: *Working paper*.
- **Dayé, Modeste** (2022). "A behavioral model for poor microentrepreneurs' financial and investment decisions". In: *Working paper*.
- – (2018). "Volunteering at the Extensive Margin: Intrinsic or Extrinsic Motive?" In: *Annals of Economics and Statistics/Annales d'Économie et de Statistique* 131, 117–136 (**Rang A HCERES**).
- **Dayé, Modeste**, Romain Houssa, and Paul Reding (2016). "Improving MSMEs access to external financing in Low Income Countries: Is there a role for Development Cooperation?" In: *Reflets et perspectives de la vie économique* 55.1, pp. 9–28.
- – (2015). "Policy instruments to improve MSMEs access to external financing in developing countries: A survey". In: *BeFinD working papers series wp6, University of Namur*.

## AWARDS

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- Research grant: £13000, Edinburgh Business School (Heriot-Watt University, Edinburgh) **2024**
- The World Bank Group Africa Fellowship (top 10 out of 3000 African PhD candidates nearing completion) **2019.**
- Research stay grant, National Fund for Scientific Research and Federation Wallonia-Brussels **2018.**
- Scholarship from the Research and Higher Education Academy, specialized master **2012.**
- Prize for the best master's thesis, Beninese Center for Scientific and Technical Research **2009.**

## CONTRIBUTION TO STUDIES AS SENIOR CONSULTANT

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### [1] Socio-economic assessments of road, railway, river infrastructures projects.

- Socio-economic assessment of the reform of the Belgian Nature Conservation Law (Walloon Region, 2023).
- Socio-economic assessment of the modernization of the Nantes-Pornic-Saint Gilles railway line (SNCF-Réseau, 2023).
- Socio-economic assessment in a model of urban growth with transportation and environmental links applied to Grand Paris (Société du Grand Paris, 2022).
- Socio-economic assessment of the Aisne-Charles de Gaulle Airport railway axis (SNCF Réseau, 2022).
  - Monetary valuation of external effects (pollution, congestion, etc.).
  - Monetary valuation of time gains and various user surpluses.
- Socio-economic assessment by axis of Waterways in Wallonia (SPW Mobility and Infrastructure, 2021).
  - Preparation of socio-economic assessments under different project scenarios.
  - Drafting the socio-economic assessment chapter
- Definition and validation of costs related to transport externalities in the Walloon Region (Walloon Region 2021).
- Study on the future of Walloon airports and prospects for integration with rail (SOWAER, 2021).
- Revision of the follow-up presentation to the client. Participation in writing the final report.

### [2] Stated Preferences surveys, Modal Choice Modeling, and Elasticity Estimation:

- National modal choice models for Switzerland, based on the national survey of stated preferences conducted in 2021 (ARE – DETEC Federal Administration in charge of transport, 2023).
  - Model estimation (Python).
  - Analysis of Covid effects.
- Conducting a survey of stated preferences on the conversion to 2x3 lanes (DREAL Hauts-de-France).
  - Estimation of a discrete choice model for road modes including carpooling and public transport, and calculation of time values and time equivalents (R).
  - Final report on the analysis of results.
- Estimation of the elasticity of railway demand in France by market segment (SNCF Réseau, 2022).
  - Calculation of representativeness quotas for travel samples in France based on socio-demographic characteristics and travel motives from the 2019 mobility survey in France.
  - Contribution to the development of hypotheses on the characteristics of modal alternatives for the SP experience.
  - Estimation of discrete choice models and analysis of results (R).

### [3] Studies Related to Financing of Transport Infrastructures and Energy and Climate plans

- Value Capture techniques in transport infrastructure projects and innovative financing possibilities for the Seine Nord Europe canal (EIB, 2022).
- Economic and legal support for the transposition of the EU Directive of March 2022 on the heavy-duty kilometer levy (SPW-SOFICO, 2022).
- Proposal of a financing strategy for the energy-climate plan of the Walloon Region (2023).

January 2024