

Prof. Edouard Musabanganji

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Overview of expertise

Edouard Musabanganji is currently serving as Professor of Agricultural Economics at the University of Rwanda. His expertise includes value chain analysis, Agricultural competitiveness, designing and implementing evaluation frameworks, conducting rigorous quantitative and qualitative analysis, and leading impact assessments, quasi-experimental studies, and randomized controlled trials across sectors such as energy, rural development, public health, and socio-therapy. He has led or co-led nine collaborative research and development projects, producing high-quality evaluation reports, strategic reviews, systems analyses, and evidence-based recommendations for policy and program improvement.

Edouard Musabanganji has published more than 40 scientific papers and book chapters in international peer-reviewed journals and has presented at over 15 international conferences and research seminars. He has facilitated several capacity-building workshops and contributed to more than 30 studies and consultancies as Team Leader or Team Member. His work is grounded in methodological rigor, quality assurance, clear interpretation of findings, and the development of actionable insights to support effective decision-making.

Areas of research and expertise

Value Chain Analysis; Agricultural economics; Agroforestry; Community development; Energy transition; Climate-Smart Agriculture (CSA); Regenerative agriculture and Productive Use of Renewable Energy (RA-PURE); Value Chain Analysis, Household welfare Analysis, Agrarian Systems Analysis Food demand, nutrition and security analysis; Welfare analysis, internal migration, and access to finance; Impact Evaluation and Causal Inference for Development Interventions using Impact Evaluation Methods (DiD, RCTs, QERD, CEM, PSM, IV), Advanced Data Analytics; Project Design, Management, and Evaluation; Mixed-Methods Research.

Current affiliation

- Director, Center for Research in Environmental Economics, Sustainability and Policy (CREESP)/EfD Rwanda, College of Business and Economics (CBE), University of Rwanda.
- Professor of Agricultural Economics, School of Economics, CBE, University of Rwanda.

Nationality

Rwandan.

Education

- **PhD in Agricultural Sciences and Biological Engineering (Specialization in *Agricultural Economics*)**, September 2017, Economy and Rural Development Unit, Gembloux Agro-Bio Tech, University of Liège, BELGIUM.
- **MSc in Applied Statistics**, September 2009, Université Catholique de Louvain, BELGIUM.
- **BSc in Education**, October 2005, National University of Rwanda.

Language skills

Kinyarwanda (C2), English (C1, IELTS: 6.5, Speaking: 7), French (C2-Medium of learning at Primary, Secondary and University levels) and Swahili (B1)

Professional Experience and attended Certified professional course

June 2010-.

- Professor of Agricultural Economics, School of Economics, College of Business and Economics, University of Rwanda (From July 2023 to now).
- Senior Lecturer (July 2018-June 2023) & Team Leader of UR/Sweden Economics Research Subprogramme, School of Economics, CBE, University of Rwanda (2022-March 2025).
- Lecturer (since September 2013) & Acting Deputy Dean, School of Economics, College of Business and Economics, University of Rwanda, (since April 2018 to March 2019).
- Main Supervisor of 6 PhD Theses [1 completed]. Co-Supervisor of 3 PhD Theses [1 completed].

- Jan 24-26, 2019 Certified Course on *Impact Evaluation and Causal Inference for Development Interventions*. School of Economics, University of Rwanda & University of Gothenburg, Sweden.
- Oct 2022 Certified Course in *Effective Project Management*, PM4DEV, Washington DC, USA.
- May 2022 Certified Course in *Fundamentals of Project Management*, PM4DEV, Washington DC, USA.
- September 2017 Certified Researcher in *Agricultural Sciences and Biological Engineering* [Area of Specialization: *Rural Economics and Development*], University of Liège, BELGIUM.
- Ap. 23-May 04, 2012 Regional Short-Course on *Gender and Economic Analysis* organized by African Economic Research Consortium (AERC) in Arusha, Tanzania.
- Nov. 08-26, 2010 Regional Short-Course on *Gender Mainstreaming and Budgeting* organized by OSSREA in Huye, Rwanda.
- 2010 Kigali Independent University (ULK), Faculty of Social Sciences.
Lecturer (From January 2010 to November 2010)
- 2006- 2007 Ruhango District, Southern Province.
Professional in charge of Social Affairs, Kinihira Sector

Computer Skills and Statistical Packages

- **Microsoft Office:** Word, Excel, Power point and Internet
- **Statistical Packages:** STATA, R, Eviews, SPSS, Python (Basic), GRET, SAS (Basic), EPI-INFO, Epi-Data CPro (Basic), SPAD, ODK/KOBO.

Other Academic Experience

- April-June 2022 Visiting scholar at Kiel University and Kiel Institute for the World Economy (IfW Kiel) under the Erasmus + Programme. Kiel, Germany.
- June 2009 Visiting scholar at University of Liege, Gembloux Agro-Bio Tech, Economy and Rural Development Unit under the ARES Exchange Programme. Gembloux, Belgium.

Professional websites, social media accounts, or public profiles

- LinkedIn Account: <https://www.linkedin.com/in/edouard-musabanganji-b181a32a3>
- ORCID: <https://orcid.org/0000-0001-9444-4910>

Demonstration of Leadership

- March 2026 Director, Center for Research in Environmental Economics, Sustainability and Policy (CREESP). CREESP is hosting EfD Rwanda and the Inclusive Green Economy (IGE) in Practice with a financial support from Swedish International Development Agency (Sida) through EfD Global Hub.
- March 2024 Appointed by the Principal of the College of Business and Economics to Lead the Development of a Proposal for the Establishment of an Environment for Development (EfD) Center at University of Rwanda, College of Business and Economics. The EfD Center at University of Rwanda has been approved in May 2025.
- April 2024 Appointed by the Vice Chancellor of the University of Rwanda to coordinate the Retreat to develop Legal Instruments provided by both University of Rwanda and Rwanda Polytechnic Laws.

- August. 2022-April 2024** Appointed by the Right Honorable Prime Minister as Co-chair of a taskforce tasked with conducting the University of Rwanda Performance Review Exercise.
- March 2024** Appointed by the Principal of the College of Business and Economics to Lead the Development of the Proposals for the Establishment of the Environment for Development Center in Rwanda and the Center for Environment and Sustainable Development in the College of Business and Economics.
- May 2023** Appointed by the Vice Chancellor of the University of Rwanda to develop the Manual for the PhD Programmes under UR-Sweden Partnership at University of Rwanda.
- January 2019** Appointed by the Principal of the College of Business and Economics as the member of the Research and Postgraduate Teaching Programme Committee in the School of Economics.
- June 2018** Appointed by the Director of the African Center of Excellence in Data Science as the Member of Research Committee.
- June 2018** Appointed by the Principal of the College of Business and Economics as the Co-Leader of a Team to develop the MSc Economics Thesis Manual.
- April 2018-March 20219** Appointed by the Principal of the College of Business and Economics as the Deputy Dean for Economics under the School of Economics and Governance [Following the *Decision SMC/17/I4 D7* of the Senior Management Council of the University of Rwanda].
- April 2018** Appointed by the Principal of the College of Business and Economics as the Co-Leader of a Team to write Letter of Intent under Cluster 2 [Environment, Socio-economic Transformation and Sustainable Development] for the July 2019-June 2024 UR-Sweden Partnership.

Research Project Management Experience and Professional membership

- 2025-2026** Co-Principal Investigator of the Research Project titled: "*Harnessing Artificial Intelligence-Based Model for Optimal Vaccine supply Chain Management in EAC*" funded by the East African Community Regional Center of Excellence for Vaccines, Immunization, and Health Supply Chain Management (EAC RCE VIHSCM).
- Sept 2022-Aug 2027** Partner-South (In charge of Socioeconomic part of the project and PhD Thesis supervisor), *Projet d'Amélioration de la Qualité des Bières Traditionnelles Rwandaises, par l'Optimisation des Procédés Innovants d'Incorporation de Matières Premières Locales*. A Multi-institutional Research and Development Project funded for 4 Years by Académie de Recherche et d'Enseignement Supérieur (ARES-Belgium) and implemented by Catholique Université Catholique de Louvain (Louvain-la-neuve, Belgium), Université de Liège (Belgium) and University of Rwanda.
- 2024-2025** Co-Principal Investigator of the Research Project titled: "*Fostering Horticulture Supply Chain in Two Selected Districts of Rwanda Under Extreme Climate Events: Hybrid Machine Learning and Metaheuristic Model*" funded by the Kühne Foundation, Germany.
- 2023-2025** Co-Principal Investigator of the Research Project titled: "*From Concept to Reality: Private sector centered business models for ecosystem-based adaptation strategies in Kirehe and Musanze districts, Rwanda*" funded by Rwanda Environment Management Authority.
- 2023-2025** Co-Principal Investigator of the Research Project titled: "*Adoption and Impact of agroforestry on productivity and household food security in Rwanda*" funded by the Swedish International Development Agency through the US-Sweden partnership.
- 2021-2024** Principal Investigator of a Research Project entitled: "*Access to Credit and Household Welfare in Rural Rwanda: Evidence from Matching and Endogenous Switching Models*" funded by the African Economic Research Consortium (AERC).
- 2021 - 2023** Co-Principal Investigator of a NCST funded Project under UR-SPIU on "Enhancement

of Production Technology and Quality of Rwandan Traditional Beers “IKIGAGE” by Optimization Process incorporating the Innovative Local Raw Materials”.

- 2018 - 2020 Project Lead/Principal Investigator, UR-ULg/Project KIKI-R.CFRA.9043, a 3 year-Regional Development Project funded by Wallonie-Bruxelles International (WBI) through the Center for Development Partnership and Cooperation (PACODEL) of the University of Liège.
- 2011 - 2013 Lead Researcher, OSSREA Funded Project under OSSREA’s *Unemployment and Employment Policies and Strategies in Sub-Saharan Africa*.
- From 2020 to now A member of the Scientific Committee in charge of preparing the Annual International Agriculture Symposium (AGROSYM) held annually and organized by the University of Eastern Sarajevo, Bosnia-Herzegovina. <http://agrosym.ues.rs.ba/about/committees>
- From Jan. 2018 Reviewer, Financial Innovation, a Springer Open Journal affiliated with Southwestern University of Finance and Economics, China. <https://jfin-swufe.springeropen.com>
- August 2016 Member of the African Association of Agricultural Economists (AAAE).
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Selected Conducted Studies/Consultancy Services and Facilitated Workshops

- February-April 2025 *Rapid Assessment of Regenerative Agriculture and Productive Use of Renewable Energy (RA-PURE) in 6 Districts of Rwanda*. Individual Consultancy. Team Leader.
- February 2025 *Impact of Access to Credit on Household Welfare in Rural Rwanda*. Project funded by African Economic Research Consortium (AERC). Principal Investigator
- January-August 2024 *Impact Evaluation of food access program of Solid’Africa on inpatient nutrition, recovery, cost of care, and health related quality of life in Selected Public Referral Hospitals in Rwanda*. Co-Principal Investigator
- May-June 2024 Endline Evaluation of the Project titled: *Uptake of family planning services in Catholic co-managed health facilities* on behalf of CARITAS Rwanda. Contract signed by The Result Consult Co. Ltd. Team Leader.
- June-July 2023 *Assessment of Inhibiting and Contributing Factors of Male Engagement for Effective Use of Family Planning Services in Catholic Affiliate Health Facilities* on behalf of CARITAS Rwanda. Contract signed by The Result Consult Co. Ltd. Team Leader.
- April-August 2023 *Tracer Survey of Graduates from Polytechnic and General Higher Education Survey and Employer Satisfaction Survey* on behalf of the Higher Education Council. Contract signed with Regional Research Center for Integrated Development (RCID) Ltd. Team member and Senior Statistician.
- March 2022 *Time to Cross and Cross-border Traders’ Perception Surveys* on behalf of the Ministry of Trade and Industry (MINICOM). Team Leader.
- December 2021 *Time to Cross Survey* on behalf of the Ministry of Trade and Industry (MINICOM). Team Leader.
- Dec. 21-August 22 *Community-Based Health Initiative Client Survey* on behalf of Rwanda Social Security Board (RSSB) and USAID/RIHSA. Deputy Team Leader and Statistician.
- Dec. 21-Feb. 22 *Made In Rwanda Baseline Survey* on behalf of the Ministry of Trade and Industry (MINICOM). Team Leader.
- September 2021 *Time to Cross and Cross-border Traders’ Perception Surveys* on behalf of the Ministry of Trade and Industry (MINICOM). Team Leader.
- April-Sept. 2021 *National Research and Experimental Development Survey* on behalf of the National Commission for Science and Technology (NCST). Team member and Senior

Statistician.

- March-May 2021** *Time to Cross and Cross-border Traders' Perception Surveys* on behalf of the Ministry of Trade and Industry (MINICOM). Team Leader.
- Feb.-Mar. 2021** *Cross-border Trade Baseline Surveys* on behalf of MINICOM-SPIU. Team Leader.
- Feb-August 2021** *Assessment of Science, Technology and Innovation Status in Rwanda* on behalf of the National Commission for Science and Technology (NCST). Team member and Statistician.
- June-Oct. 2020** *Testing and Validating Research Tools and Conducting a Training of SBS Staff on Quantitative Methods and Data analysis* on behalf of Community-Based Sociotherapy Rwanda (CBS-Rwanda). Individual Consultancy for a Senior Statistician.
- Jan.-Dec. 2020** *2020 Rwanda Reconciliation Barometer* on behalf of the National Unity and Reconciliation Commission (NURC). Statistician (Under CAP Ltd.)
- Jan.-April 2019** *Developing a Quantitative Experimental Research Design for a Project entitled: "Informing Reconciliation Policy Guidelines through evidence on the links between psychosocial support and economic development in post-genocide Rwanda"* on behalf of Community-Based Sociotherapy Rwanda (CBS-Rwanda). Individual Consultancy for a Senior Statistician.
- August 2019** Training on *Research Methodology and Research Paper Writing* organized by EPRN-Rwanda. Kigali-Rwanda (Trainer).
- Jan. -Feb. 2018** *Training on Research Methodology and Computer applications (SPSS, STATA, NVivo and GIS)* organized by the Ministry of Sport and Culture (MINISPOC) for 30 staff from MINISPOC and affiliated agencies, Kigali-Rwanda (Trainer). Trainer
- June-August 2013** *Caregiver Baseline and Evaluation* for World Vision Rwanda/Ngenda Area Development Program. Statistician hired for data analysis and fact sheet design and reporting.
- Apr.-June 2013** *Market Assessment for the Dairy Sector in Rusizi District, Western Province* for Rwanda Agriculture Board (RAB). Team member (under National University of Rwanda- Consultancy Bureau) in charge of training data collectors, supervising the field data collection, data analysis and participating in reporting.
- Jan.-Mar. 2013** Development of a *Web-Based Database System and Data Entry Template for Monitoring and Evaluation of Western Zone Projects*. Consultant responsible for analyzing the current data records in Western Zone, designing a Web-based Database tool that will capture data collected from different departments, developing the database system, installing the database in the machines, doing a pilot exercise of data entry, reviewing and harmonizing data collection tools, and training the M&E staff.
- Sept.-Oct. 2012** Survey on *"Investors' Perceptions of the Business Climate in Rwanda"*. Deputy Team Leader (Under BAGEC Ltd.) responsible for the survey instruments preparation, the inception report design, the field work preparation and design, training of enumerators, supervising the field work, and reporting.
- Aug.-Nov. 2012** Baseline survey on *"Rwanda Dairy Competitiveness Program II"* for Land O' Lakes/USAID. Team member and statistician (Under WEACS Ltd.) in charge of participating in proposal development, inception meeting and review of relevant document, supervising the field data collection, data management and analysis, participating in report writing and validation workshop.
- May-June 2012** Baseline survey on *"Rwanda Sustainable Livelihoods Programme"* for TROCAIRE-Rwanda. Statistician in charge of Data entry exercise, analysis, and draft report design.
- June 5-10, 2011** Workshop on *"Demand Forecasting and Market information"* held in Kampala, Uganda and organized by The Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA) for Participants from Uganda, Rwanda and Burundi.
Trainer hired for preparing the training modules and Training on Use of R for Market

Information Management and Demand Forecasting (5 days).

- Apr. 27-29, 2011** *2nd Sub-Regional Training Workshop in Research Methodology for Strategic HIV and AIDS Interventions* organized by University League for AIDS Control of the National University of Rwanda, Huye-Rwanda. Trainer recruited for preparing and training participants from Cameroon, Burundi, Rwanda, Democratic Republic of Congo, Centrafrique and Gabon on Research Methods and Computer applications.
- Oct.-Nov. 2011** *Abahizi Households Nutrition Assessment* for CRS-Higa Ubeho USAID-Funded Project. Team Leader in charge supervising activities related to data entry, data management, data analysis and reporting.
- Aug-Nov. 2011** *Future Projection for National University of Rwanda (NUR) Expansion for NUR Expansion Task Force*. Consultant hired to collect data for NUR future projection, data analysis and reporting.
- July-Sept. 2011** *The National University of Rwanda (NUR) Alumni Survey and Alumni Policy and Strategic Plan Design*. Team member in charge of reviewing existing documents to retrieve data regarding NUR Alumni, analyzing data and participating in report design.
- Dec. 2010-Feb. 2011** *Study on the Current Electrification Rate in Rwanda for Ministry of Infrastructure*. Team member hired to coordinate the development of the study methodology and data collection instruments, to organize and supervise the field data collection, to supervise data entry, to manage and analyze the collected data and to participate in report design.
- Dec. 2010-Jan. 2011** *Survey on Trade-Offs Synergies in Managing Wetlands Resources for Improved Food Security and Adaptation to Climate Change in the Lake Victoria for VICRES Project-NUR*. Team member hired to participate in tools preparation, to supervise the data entry and data analysis.
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SCIENTIFIC PUBLICATIONS

A. *Papers published in Peer-Reviewed and Indexed Journals.*

1. Nsabimana, S., Rwirahira, J., Lyumugabe, F., **Musabanganji, E.**, Burny, P. & Lebailly, P. (2025). Factors affecting traditional beer production in Rwanda: A case study of Banana and Sorghum brews. Paper accepted for publication in *Tropicultura*. <https://ojs.uliege.be/index.php/tropicultura/authorDashboard/submission/1906>
2. Nsabimana, S., Rwirahira, J., Lyumugabe, F., **Musabanganji, E.**, Burny, P. & Lebailly, P. (2025). Understanding traditional beer consumption in rural Rwanda: Key insights on the prevalence, dominance and preferences. *Afr. J. Food Agric. Nutr. Dev.*, 25 (6): 27087-27111. doi.org/10.18697/ajfand.143.2589.
3. **Musabanganji, E.** (2025). Access to credit and Household Welfare in Rural Rwanda. *Research Paper 562*. African Economic Research Consortium (AERC). Nairobi, Feb. 2025.
4. Hatungimana, S., Barankanira, E., **Musabanganji, E.**, Menus Nkurunziza, M. & Nkurunziza, J. D.D. (2025). Effect of the Tree Cutting Session on the Tea Leaves Yield in Burundi. *Applied Mathematical Sciences*, 19, 2025, no. 3, 137 – 151. <https://doi.org/10.12988/ams.2025.919209>
5. Nsabimana, S., Rwirahira, J., Lyumugabe, F., **Musabanganji, E.**, Burny, P. & Lebailly, P. (2025). Factors affecting traditional beer production in Rwanda: A case study of Banana and Sorghum brews. Paper accepted for publication in *Tropicultura*. <https://ojs.uliege.be/index.php/tropicultura/authorDashboard/submission/1906>
6. Nsabimana, S., Rwirahira, J., Lyumugabe, F., **Musabanganji, E.**, Burny, P. & Lebailly, P. (2025). Understanding traditional beer consumption in rural Rwanda: Key insights on the prevalence, dominance and preferences. *Afr. J. Food Agric. Nutr. Dev.*, 25 (6): 27087-27111. doi.org/10.18697/ajfand.143.2589.
7. **Musabanganji, E.** (2025). Access to credit and Household Welfare in Rural Rwanda. *Research*

Paper 562. African Economic Research Consortium (AERC). Nairobi, Feb. 2025.

8. Hatungimana, S., Barankanira, E., **Musabanganji, E.**, Menus Nkurunziza, M. & Nkurunziza, J. D.D. (2025). Effect of the Tree Cutting Session on the Tea Leaves Yield in Burundi. *Applied Mathematical Sciences*, 19, 2025, no. 3, 137 – 151. <https://doi.org/10.12988/ams.2025.919209>
9. Achaw, A. M., Ruhara, M. C., **Musabanganji, E.** & Hitimana, R. (2025). Determinants of willingness and ability to pay for an Improved community-based health insurance in Rwanda. *SSM - Health Systems*. 4. (2025): DOI:[10.1016/j.ssmhs.2025.100069](https://doi.org/10.1016/j.ssmhs.2025.100069)
10. Ngango, J., **Musabanganji, E.**, Maniriho, A., Ferdinand Nkikabahizi, F., Mukamuhire, A. & Ng'ombe, N. J. (2024). Does agroforestry contribute to household food security? A micro perspective from southern Rwanda, *Forest Policy and Economics*, 165 (8): [1389-9341](https://doi.org/10.1016/j.forpol.2024.103252)
<http://dx.doi.org/10.1016/j.forpol.2024.103252>
11. Maniriho, A., Nkikabahizi, F., Kayisire, P. & **Musabanganji, E.** (2024). Agroforestry for improving small-scale farm yield in Volcanic Highlands in Rwanda. *Agriculturae Conspectus Scientificus*, 89(2).
12. **Musabanganji, E.**, Maniriho, A. & Lyumugabe, F. (2023). Production and Commercialization and Consumption of Traditional Sorghum Beer (“Ikigage”), and Its Impact on Local Farmers’ Welfare in Rwanda. *Agronomie Africaine*, 35 (2) : 333 - 346 (2023)
<https://www.ajol.info/index.php/aga/issue/view/22993>
13. Ngango, J., **Musabanganji, E.**, Maniriho, A., Ferdinand Nkikabahizi, F. & Mukamuhire, A. (2023). Examining the adoption of agroforestry in Southern Rwanda: a double hurdle approach, *Forest Science and Technology*, DOI: 10.1080/21580103.2023.2254317
14. Mutai, C.K., McSharry, P.E., Ngaruye, I. & **Musabanganji, E.** (2023). Use of Unsupervised Machine Learning Techniques to characterize HIV Predictors in sub-Saharan Africa. *BMC Infectious Diseases* 23 (482 <https://doi.org/10.1186/s12879-023-08467-7>
15. Mutai, C.K., McSharry, P.E., Ngaruye, I. & **Musabanganji, E.** (2023). Temporal Trends of HIV Prevalence in sub-Saharan Africa. *JP Journal of Biostatistics* 23(3), 263-279.
<http://dx.doi.org/10.17654/0973514323015>
16. Maniriho, A., **Musabanganji, E.**, Nkikabahizi, F. & Lebailly, P. (2022). Analysis of small- scale farmers’ exposure to environmental risks: Empirical evidence from rural Rwanda. *Agronomie Africaine*, 34(2), 281-291. <http://hdl.handle.net/2268/265821>
17. Maniriho, A., **Musabanganji, E.** & Lebailly, P. (2022). Preferences of small-scale farmers for innovative farming techniques in Volcanic Highlands in Rwanda. *Agris online Papers in Economics and Informatics*, 8(2), 68-74. <https://hdl.handle.net/2268/265823>
18. Maniriho, A., **Musabanganji, E.** & Lebailly, P. (2022). Food security status and coping strategies among small-scale crop producers in Volcanic Highlands in Rwanda. *Journal of Central European Agriculture*, 23(1), 165-178. <http://hdl.handle.net/2268/264073>
19. Maniriho, A., **Musabanganji, E.** & Lebailly, P. (2022). A comparative study between major crop (potato) and minor crop (onion) in Volcanic Highlands of Rwanda. *Journal of Agriculture and Crops*, 8(2), 68-74. <http://hdl.handle.net/2268/265823>
20. Abdou, M., **Musabanganji, E.** & Musahara, H. (2022). Determinants of Tourism Demand Using Machine Learning Techniques. *African Journal of Hospitality, Tourism and Leisure*, Vol. 11(2), pp. 770–780. DOI: <https://doi.org/10.46222/ajhtl.19770720.256>
21. Abdou, M., **Musabanganji, E.** & Musahara, H. (2022). Factors Affecting the Visitation to National Parks Using Machine Learning Techniques: The Case of National Parks in Rwanda. *African Journal of Hospitality, Tourism and Leisure*, Vol. 11(2), pp. 457–474. DOI: <https://doi.org/10.46222/ajhtl.19770720.236>

22. Maniriho, A., **Musabanganji, E.**, Berti, F. & Lebailly, P. (2021). La rentabilité de la pomme dans la région des sols de laves au Rwanda. *Tropicultura*, 39(4), 1909. <https://doi.org/10.25518/2295-8010.1909>
23. Maniriho, A., **Musabanganji, E.**, & Lebailly, P. (2021). Factors affecting farm performance among small-scale farmers in Volcanic Highlands in Rwanda: what is the role of institutions? *Asian Journal of Agriculture and Rural Development*, 11(4), 262-268. <http://hdl.handle.net/2268/264070>
24. Maniriho, A., **Musabanganji, E.**, Nkikabahizi, F., Ruranga, C., & Lebailly, P. (2021). Analysis of the determinants of households' expenditures in Rwanda. *UKH Journal of Social Sciences*, 5(1), 8-17. <https://doi.org/10.25079/ukhjss.v5n1y2021.pp8-17>
25. Mutai, C.K., McSharry, P.E., Ngaruye, I. & **Musabanganji, E.** (2021). Use of machine learning techniques to identify HIV predictors for screening in sub-Saharan Africa. *BMC Medical Research Methodology*, Vol. 21(1), 159. <https://doi.org/10.1186/s12874-021-01346-2>
26. Abdou, M., **Musabanganji, E.** & Musahara, H. (2021). Tourism Demand Modelling and Forecasting: A Review of Literature. *African Journal of Hospitality, Tourism and Leisure*, 10(4), pp. 1370–1393. DOI: <https://doi.org/10.46222/ajhtl.19770720-168>
27. Maniriho, A., **Musabanganji, E.**, & Lebailly, P. (2020). Analysis of Economic Efficiency of Small-scale Onion Production in Volcanic Highlands in Rwanda. *Montenegrin Journal of Economics*, 16(3), 185-196. <http://hdl.handle.net/2268/250900>
28. **Musabanganji, E.**, Ruranga, C. & Maniriho, A. (2019). Migration decisions among rural households in Rwanda: What does the push-and-pull model reveal? *AGROFOR International Journal*, Volume 4 (3): 68-75. DOI: <https://doi.org/10.7251/AGRENG1903068M>
29. **Musabanganji, E.**, Ruranga, C., Nzabanita, J., Nkikabahizi, F., Ndizeye, I. & Lebailly, P. (2019). Productivity and competitiveness of Rwandan agriculture: a case study of the maize sector. *AGROFOR International Journal*, Volume 4 (1): 32-40. DOI: <https://doi.org/10.7251/AGRENG1901032M>
30. **Musabanganji, E.**, Ruranga, C. & Maniriho, A. (2019). Migration decisions among rural households in Rwanda: What does the push-and-pull model reveal? *AGROFOR International Journal*, Volume 4 (3): 68-75. DOI: <https://doi.org/10.7251/AGRENG1903068M>
31. **Musabanganji, E.**, Ruranga, C., Nzabanita, J., Nkikabahizi, F., Ndizeye, I. & Lebailly, P. (2019). Productivity and competitiveness of Rwandan agriculture: a case study of the maize sector. *AGROFOR International Journal*, Volume 4 (1): 32-40. DOI: <https://doi.org/10.7251/AGRENG1901032M>
32. **Musabanganji E.**, Karangwa, A., Azadi, H. & Lebailly, P. (2016). Regional Integration and Agricultural Trade Development in Rwanda: The case of Staple Foods Sector. *Agriculture and Forestry*, Volume 62 (2): 1 53-1 62. DOI: <https://doi.org/10.17707/AgricultForest.62.2.14>
33. Bashangwa M. B., **Musabanganji, E.**, Ndimanya, P. & Lebailly, P. (2015). Analysis of the Adoption of Passion Fruit (*Passiflora edulis*) in farming systems, Matongo-Burundi. *Agriculture and Forestry*, Volume 61 (4): 117-124. DOI: <https://doi.org/10.17707/AgricultForest.61.4.12>
34. **Musabanganji, E.**, Karangwa, A. & Lebailly, P. (2015). Price transmission mechanism analysis: An application to selected foodstuffs on the main markets of the Southern Rwanda. *East African Journal of Science and Technology (EAJST)*, Volume 5 (2): 179-200. <http://hdl.handle.net/2268/186896>
35. **Musabanganji, E.** (2013). Analysis of the behavior of the main food product on local markets in Rwanda. A Methodological approach using the Equilibrium model. *Journal of Emerging Issues in Economics, Finance and Banking (JEIEFB)*, Vol. 1 (3): 163-183. <http://hdl.handle.net/2268/157411>
36. Jose, A. M., **Musabanganji, E.**, Niwemahoro C., Banamwana, L., Uwitonze, M. and Mukamana, A. (2011). A study of institutional environment and household food security at local level in Rwanda. *Rwandan Journal*, Vol. 22 (B): 96-128. <https://www.ajol.info/index.php/rj/article/view/71505>

37. Niwemahoro, C., **Musabanganji, E.** and Banamwana, L. (2011). Fertility preferences and level of Family planning in Rwanda: Case of Huye District. *Journal of Emerging Trends in Economics and Management Sciences (JETEMS)*, Vol. 2 (3): 168-174. <http://hdl.handle.net/2268/159526>

B. Peer-reviewed book chapters

38. Maniriho, A., **Musabanganji, E.**, & Lebailly, P. (2020). An analysis of savings among the poor rural households in Rwanda. In Das, G. D., & Johnson, R. B. (Eds.), *Rwandan Economy at the Crossroads of Development: Macroeconomic and Microeconomic Perspectives* (pp. 21-41). Springer Nature Singapore Pte Ltd. eISBN: 978-981-15-5046. <http://hdl.handle.net/2268/249182>
39. Nkikabahizi, F., Hategekimana, V., & **Musabanganji, E.** (2020). The Working of Monetary Policy Transmission Mechanism in Rwanda: An Econometric Analysis using Equilibrium Model (Chapter 4). In Gouranga, D. and Rukundo, B. J. (Eds.) *Rwandan Economy at the Crossroads of Development*. Frontiers in African Business Research, Springer Nature Singapore Pte Ltd. DOI: https://doi.org/10.1007/978-981-15-5046-1_4
40. Nkikabahizi, F., Ndagijimana, J. & **Musabanganji, E.** (2017). Relationship Between Inflation and Real Economic Growth in Rwanda. In A. Heshmati (Ed.), *Studies on Economic Development and Growth in Selected African Countries*, Frontiers in African Business Research, Springer Nature Singapore Pte Ltd. DOI: https://doi.org/10.1007/978-981-10-4451-9_6
41. **Musabanganji, E.** & Rukundo, J.B. (2014). Unemployment and Under-employment in Rural areas of Rwanda. A case study of Huye District. In Mihyo, P. (Ed.), *Employment Policies and Unemployment in Southern and Eastern Africa*, 370-395. <http://hdl.handle.net/2268/169869>

C. Peer-reviewed conference proceedings

42. **Musabanganji, E.**, & Maniriho, A. (2019). Regional Trade and Competitiveness of Rwandan Agriculture: Scenarios and Challenges for Priority Foodstuffs. Paper selected for oral presentation in International Conference organized by CEDRES/FORGE-Afrique of University Ouaga II in partnership with RTT/UEMOA and held in Ouagadougou, Burkina Faso, from 25 to 26 October 2019.
43. Maniriho, A., **Musabanganji, E.** & Lebailly, P. (2019). Crop production and food consumption for farmers' welfare in Rwanda. Paper accepted for oral presentation at AgroSym 2019, Jahorina, 3-6 October, 2019. <http://hdl.handle.net/2268/240376>
44. Maniriho, A., **Musabanganji, E.** & Lebailly, P. (2019). An analysis of savings among the poor rural households in Rwanda. *4th International Conference on East Africa Business and Economic Watch (EABEW)*, Kigali, 12-14 June 2019. This paper was submitted for publication as a book chapter in Springer book series. <http://hdl.handle.net/2268/237421>
45. **Musabanganji, E.**, Karangwa, A. & Lebailly, P. (2015). Determinants of Access to Agricultural Credits for Small Scale Farmers in the Southern Province of Rwanda, In Dusan, K. (Ed.), *Book of Proceedings, Sixth International Scientific Agricultural Symposium "AgroSym 2015"* (6): 1815-1820. http://agrosym.ues.rs.ba/article/showpdf/BOOK_OF_PROCEEDINGS_2015.pdf

D. Papers recently submitted for publication

46. Rizinde, T., **Musabanganji, E.**, Bikorima, S., Ufitinema, P. & Mukamana, L. (2025). A Systematic Review of Business Models for Ecosystem-Based Adaptation Strategies and Private Sector Engagement. Paper submitted to *Ecosystems and People*. Paper under review.
47. Rizinde, T., **Musabanganji, E.**, Bikorima, S., Ufitinema, P. & Mukamana, L. (2025). Private Sector Partnership for Sustainable Ecosystem-Based Adaptation: Understanding Barriers and Opportunities in Kirehe and Musanze Districts of Rwanda. Paper submitted to *Ecosystems and People*. Paper under review.

48. **Musabanganji, E.**, Molua, E.; Akpalu, W.; Kampogo, J.; Thiele, R. (2025). Accessing Credit for Household Welfare: Estimating the Effects on Expenditures, Food Consumption and Dietary Diversity in Rwanda. Paper submitted to *World Food Policy*. Paper under review.
49. **Musabanganji, E.**, Maniriho, A., Kayisire, P., Nyalihama, C. (2024) Regional Trade and Competitiveness of Rwandan Agriculture: Empirical Analysis of Selected Priority Foodstuffs. Paper submitted to *Rwanda Journal of Social Sciences, Humanities and Business* (RJSSHB). November 2022. <https://www.ajol.info/index.php/rjsshb>. Paper under review.
50. Karangwa, T., Gisaro, C. M. Y. B., Ndikumana, C. **Musabanganji, E.** (2024). Factors Affecting the Vision Umurenge Programme Financial Loans Repayment in Gisagara District of Rwanda. Paper submitted to *Rwanda Journal of Social Sciences, Humanities and Business* (RJSSHB). November 2020. <https://www.ajol.info/index.php/rjsshb>. Paper under review.

A. Published book

1. **Musabanganji, E.** (2012). *Analyse des séries temporelles appliquée*. A book of 152 pages published in Editions Universitaires Européennes, Sarrebruck. ISBN: 978-3-8417-9293-8. <https://www.editions-ue.com/catalog/details/store/gb/book/978-3-8417-9293-8/l'analyse-des-séries-temporelles-appliquée>

Technical Workshops and Experts Meetings attended

- Sept. 10-15, 2018** 12th African Continental Free Trade Area (AfCTA) Negotiation Forum Meeting organized by African Union Commission (AU-Commission) in Lusaka, Zambia.
- Ap. 23-May 04, 2012** Technical workshop on *Gender and Economic Analysis* organized by African Economic Research Consortium (AERC) in Arusha, Tanzania.
- 21-26 Nov. 2011** Expert Group Meeting on the African Group on “*Statistical Training and Human Resources (AGROST)*” organized by Economic Commission for Africa/Sub-Regional Office for Central Africa (ECA/SRO-CA) in Yaoundé, Cameroon. The objective of the meeting was to reinforce capacity of African countries in data collection, compilation and reporting of development indicators.
- May 23-27, 2011** Regional Workshop on *Employment Policies* organized by OSSREA in Addis-Ababa, Ethiopia.

Referees

1. **Prof. Philippe BURNY**, Professor and Scientific Attaché, Agriculture and Sustainability Unit, Department of Sustainability, Systems and Prospects, Centre for Agricultural Research of Wallonia, Belgium (CRA-Wallonie), Phone: +32 81 87 43 18, Email: p.burny@cra.wallonie.be. [Secretary of my PhD Thesis committee].
2. **Dr. Solange UWITUZE**, Minister of State, Ministry of Agriculture and Animal Resources. Phone:+250788309637, E-mail: solangeuwituze@gmail.com

I certify that the above information is true to the best of my knowledge.



Prof. Edouard Musabanganji

