

### Major areas of specialization

Research Themes **Fiscal Federalism, Spatial Interactions, Public Economics, Environmental Economics, Energy, Animal Health Economics**

Research Methods **Applied Econometrics, Spatial Econometrics, Game Theory**

### Education

2014-2018 **Ph.D in Economics**, Université de Bourgogne Franche-Comté, under the supervision of Julie LE GALLO and Marie-Laure BREUILLE, France

**Title : Spatial Interactions and Energy**, defended on December 13th, 2018, Jury : Marie-Laure BREUILLE (advisor), Pascale Duran-Vigneron, Mouez FODHA (referee), Julie LE GALLO (advisor), Diégo LEGROS (president), Babacar SENE, Emmanuelle TAUGOURDEAU (referee)

2013-2014 **Master degree in Economics, "Chargé d'Etudes Economiques"**, Université de Bourgogne Franche-Comté  
Dissertation written under the supervision of Julie LE GALLO

2011-2012 **Master degree in Economics, "International Trade"**, Université de La Rochelle

2009-2011 **"Diplôme d'Etudes Approfondies" or collaborative Master degree in Economics "Economic Policy Analysis" (APE)**, Université Cheikh Anta Diop de Dakar, Senegal

2008-2009 **"Maîtrise" or First Postgraduate Diploma in Economics**, Université Cheikh Anta Diop de Dakar, Senegal

2005-2008 **"Licence" or Bachelor degree in Economics**, Université Cheikh Anta Diop de Dakar, Senegal

### Teaching

2023-2024 **Teaching in Economics**, University of Lorraine

- Microeconomics
- Statistics
- Economic policy
- Survey techniques and sampling methods
- Spatial econometrics

2022-2023 **Teaching in Spatial Econometrics**, ENSAE, Malakoff

- Spatial models in cross-section
- Spatial panel models (including common factors)
- Geographical and Economic weight matrices
- Geographically weighted regression

## 2019-2021 **Teaching in Animal Health Economics**

- ENVT Toulouse
- VetAgro Sup, Lyon
- Autonomous University of Barcelona

## 2017-2018 **Teaching assistant in Economics**, Université de Tours

- General Economics, first year (Economic and Social Management)
- Microeconomics, first year (Economics)
- Macroeconomics, second year (Economic and Social Management)

## 2016-2017 **Teaching assistant in Economics**, Université de Franche-Comté

- Mathematics, first year (Economics)
- Tutorials in Descriptive Statistics, first year (Economics)

## Research

### Publications

- 2024 **Cocoa, livelihoods and deforestation in the Congo Basin : A spatial analysis**, with Jonas NGOUHOUE POUFOUN, Sabine Chaupain-Guillot, Denis Sonwa, Kevin Djabo and Philippe Delacote, **Plos One**, 19(6), e0302598.
- 2023 **Cost of lameness in dairy herds : An integrated bioeconomic modeling approach**, with Robcis Rodolphe, Ferchiou Ahmed, Berrada Mehdi, Herman Nicolas, Lhermie Guillaume and Raboisson, Didier, **Journal of Dairy Science**, 106(4), 2519-2534.
- 2023 **The Marginal Abatement Cost of Antimicrobials for Dairy Cow Mastitis : A Bioeconomic Optimization Perspective**, with Ferchiou Ahmed, Mandour Mostafa, Herman Nicolas, Lhermie Guillaume and Raboisson Didier, **Veterinary Sciences**, 10(2), 92.
- 2022 **Évaluation socio-économique de la réduction d'usage des antibiotiques dans la filière porcine : le plan Ecoantibio 1**, with Lhermie, G., Ferchiou, A., Justinia, G., Lisbona, D., Koralewski, M. and Raboisson, D  
Numéro spécial, Rationaliser l'usage des médicaments en élevage. Baéza É., Bareille N., Ducrot C.(Éds). **INRAE Prod. Anim**, 35, 345-356.
- 2022 **The gender wage gap in the French veterinary labor market**, with Berrada, Mehdi and Ndiaye, Youba and Raboisson, Didier and Lhermie, Guillaume, **Frontiers in Veterinary Sciences**, 9, 1001012.
- 2022 **Economic evaluation of antimicrobial use practices in animal agriculture : a case of poultry farming**, with Lhermie Guillaume, Rushton, Jonathan and Raboisson Didier, **JAC-Antimicrobial Resistance**, 4(6), dlac119.
- 2022 **Spatial evaluation of animal health care accessibility and veterinary shortage in France**, with Berrada, Mehdi and Ndiaye, Youba and Raboisson, Didier and Lhermie, Guillaume, **Scientific Reports**, 12(1), 13022
- 2021 **Environmental expenditure interactions among countries, a spatial panel data analysis of OECD countries case over the period 1994-2014**, with Julie Le Gallo, **Economic modelling**, pp.244-255

UFR DEA:Droit, Economie et Administration, Ile du Saulcy, – CS 80428

57045 METZ Cedex 1, France

☎ + 33 (0)7 52 28 51 27

✉ ndiaye-youba@live.fr / youba.ndiaye@univ-lorraine.fr • in Youba NDIAYE

2/4

- 2018 **Road tax interactions among local governments: a spatial panel data analysis of the French case over the period 1984-2000**, *Applied Economics*, , 4182-4196

[Submitted papers](#)

- 2023 **Mining the forests: do protected areas hinder mining-driven forest loss in Sub-Saharan Africa?**, *Environmental and Resource Economics*, with Jean-Louis Combes, Pascale Combes Motel and Manegdo Ulrich Doamba

[Working Papers & Work in Progress](#)

- 2024 **Renewable energies and dynamics of CO2 emissions : an evidence of EU countries emissions**  
with Sandrine Kablan and Luc Désiré Omgba
- 2024 **Demand for agricultural employment on French farms : an econometric analysis**  
with Toho Hien and Jens Abildtrup.
- 2024 **Climate change and land use strategies : an econometric analysis using European FADN data**  
with Esther Devilliers and Jens Abildtrup
- 2024 **An opportunity cost of French agricultural farms**  
with Toho Hien and Jens Abildtrup
- 2023 **Drivers of french dairy restructuring : a spatial probit analysis**  
with Marie Dervillé, Didier Raboisson and Guillaume Lhermie
- 2022 **Evaluating the acceptability of biosecurity measures with a discet choice experiment method**  
with Guillaume Lhermie and Pierre Ouedraogo
- 2022 **Spatial interactions of sanitary risk factor : A spatial panel data analysis of french municipalities over the period 2010-2019**  
with Mehdi Berrada, Didier Raboisson and Guillaume Lhermie
- 2019 **Architecture of energy fiscal federalism**, with Marie-Laure BREUILLE

---

## [Communications](#)

- 2024 **World Conference on Natural Resource Modeling** , New Haven, Connecticut
- 2022 **20th International workshop spatial econometrics and statistics** , Lille, France
- 2021 **Société Française d'Economie Rurale (SFER)** , Toulouse, France
- **International Society for Economics and Social Sciences of Animal Health conference (ISESSAH)**, November, Malaysia
  - **One Health Antimicrobial Stewardships conference** , March, Alberta, Canada
- 2019 **PET : Public Economic Theory conference**, Strasbourg, France
- 2018 **5th Annual Conference of the French Association of Environmental and Resource Economists (FAERE)**, Aix-en-Provence, France
- 2017 **1st Edition of FuturMob'17**, Montbéliard, France
- **2nd Edition of "Energie et Territoires"**, Paris School of Economics, France
  - **CESAER research seminars**, Dijon, France
- 2016 **15th International workshop spatial econometrics and statistics**, Orléans, France
- **4th Doctoral Day "Public Policy Analysis"**, LeHavre, France
  - **CESAER research seminars**, Dijon, France

UFR DEA:Droit, Economie et Administration, Ile du Saulcy, – CS 80428

57045 METZ Cedex 1, France

☎ + 33 (0)7 52 28 51 27

✉ [ndiaye-youba@live.fr](mailto:ndiaye-youba@live.fr) / [youba.ndiaye@univ-lorraine.fr](mailto:youba.ndiaye@univ-lorraine.fr) • [in](#) Youba NDIAYE

- 2015 **8th seminar of Spatial Econometric Jean Paelinck**, *Dijon, France*
- **2nd interdisciplinary day : Spatial Data Meetings (SDM)**, *Dijon, France*
  - **1st Edition of "Energie et Territoires"**, *Dijon, France*
  - **CESAER research seminars**, *Dijon, France*

## Skills

Languages **French, English**  
Software **Latex, R, SAS, Mathematica, Maple**  
GIS skills **ArcGIS, Geoda, QGIS**

## Miscellaneous

- 2015-2017 **Co-manager of the internal seminar "GTI"**, *CESAER, UMR INRA Dijon, France*  
2016 **Training workshop in Spatial Econometric : "Summer School"**, *Rome, Italia*

## References

### **Julie LE GALLO**

Full Professor, Agrosup Dijon  
26, bd Docteur Petitjean  
21 079 Dijon, France  
julie.le-gallo@agrosupdijon.fr

### **Marie-Laure BREUILLE**

Researcher at INRA  
26, bd Docteur Petitjean  
21 079 Dijon, France  
marie.breuille@inrae.fr