

Tidiane Ly

Research fields : Publics economics, Urban economics, Environmental economics, Public policy evaluation

POSITION

- From Sept. 2019 Post-doctoral researcher and Lecturer, Institute of Economics (IdEP)
Università della Svizzera italiana, Lugano, Switzerland
2019 Qualification CNU: *Maître de Conference* / Assistant Professor

EDUCATION

- 2018 PhD in economics at **University Lyon II - GATE, CNRS UMR 5824**
Thesis: *Tax competition within metropolitan areas*
Supervisors : Sonia Paty & Florence Goffette-Nagot
Jury: K. Schmidheiny (Professor, University of Basel, Switzerland)
P.-P. Combes (Research Director, CNRS - University of Lyon)
E. Lehmann (Professor, University Paris II Panthéon-Assas)
E. Viladecans-Marsal (Professor, University of Barcelona, Spain)
- 2016 Research stay abroad, 6 months, **University of Laval, Canada,**
Explo'ra Doc Grant
Centre de recherche sur les risques, les enjeux économiques, et les politiques publiques CRREP
Classes: Econometrics, Microeconometrics, Public policy evaluation
- 2014 Master II Research in Theoretical and Empirical economics
Paris School of economics (PSE), University Paris I, ENS Cachan
Dissertation, *mention très bien* : "Fourniture de biens publics en présence de préférences altruistes : une approche redistributive avec sélection adverse"
Supervisor: Stéphane Gauthier (Professor, Paris School of economics)
- 2013 Magistère d'économie, **University Paris I, Panthéon-Sorbonne**

AWARDS and GRANT

- First prize in **Graduate-Student-Author Paper competition,**
North American Regional Science Council, NARSC 2019,
for the paper "Taxes, commuting and spillovers in the metropolis"
- **PhD Thesis first prize** French Economic Association, AFSE 2019
- **Explo'ra Doc grant** for international mobility, 2015-2016

RESEARCH

Published articles:

- “Local taxation and tax base mobility: Evidence from France”, 2020,
T. Ly, S. Paty (Univ. Lyon II) **Regional Science and Urban Economics**

This paper investigates the impact of tax base mobility on local taxation. First, we develop a theoretical model in order to examine the connection between local business property taxation and tax base mobility within a metropolitan area. We find that, in the presence of a budget compensation, decreasing capital intensity in business property tax base, composed of capital and land, increases the business property tax rates and decreases the tax rates on residents. We test this result using a French reform which changed the composition of the main local business tax base in 2010. Difference-in-difference estimations show that in 2010, the reduction in tax base mobility indeed resulted in a 14% rise in business property tax rates and a reduction in housing tax rates of 1.3%, compared to pre-reform average levels.

- “Sub-metropolitan tax competition with mobile household and capital”, 2018,
T. Ly, **International Tax and Public Finance**

This paper investigates the efficiency properties of tax competition between sub-metropolitan jurisdictions when capital, residents and workers are mobile, and both households and firms compete for local land markets. We analyze two decentralized equilibria: (1) With a local tax on residents and two separate local taxes on capital and land inputs, efficiency is achieved and the existence of a marginal fiscal cost due to residents' mobility is revealed; (2) Combination of the taxes on capital and land inputs into a single business property tax leads local authorities to charge inefficiently high taxation on capital. We show that capital mobility induces a reduction in the business land taxation and local public inputs are used to offset the distorting effects of the property tax, accounting for the distorting impact of workers' mobility.

Working papers:

- “Housing prices, ownership incentives and rent control: Evidence from France”,
S. Chareyron (Univ. Paris XII), T. Ly, Y. Trouvé-Sargison (CNAF),

Are ownership incentive policies inevitably accompanied with pernicious inflationary effects? To address this issue, we develop a theoretical model in which owners of new housing benefit from a homeownership subsidy or a rental investment incentive. We show that while both incentives increase the new housing prices, they reduce the second-hand housing prices and have ambiguous impacts on the average housing price. We empirically test these findings by exploiting a 2014 French reform in the metropolitan area of Lyon which intensified both incentives. Difference-in-difference estimates confirm the theoretical predictions; the effect is different for new and second-hand housing markets: two years after the reform, the price of new housing has increased by 30% and the price of second-hand housing has decreased by 7%. Taking both markets together, the overall effect is non-significant.

- “Taxes, commuting and spillover in the metropolis”,
First prize NARSC Graduate-Student-Author Paper competition
T. Ly,

This paper studies local governments' public policies in a metropolitan area plagued by commuting-induced congestion, where both residents and workers consume local public goods. We develop a new spatial sub-metropolitan tax competition model which features a central city surrounded by suburban towns linked by mobile capital and mobile residents who commute to work. We show that Pareto-efficiency is achieved if towns can retain their workers using labor subsidies. Otherwise, traffic congestion in the city is inefficiently high and local governments respond by setting inefficient public policies: (i) the city over-taxes capital and under-taxes residents, which leads to too little capital and too many residents in the city; (ii) local public goods are under-provided in the city and over-provided in the towns.

Work in progress:

- “The marginal value of public funds in a federation”,
D.R. Agrawal (Univ. Kentucky), W. H. Hoyt (Univ. Kentucky), T. Ly
This paper establishes and provides a framework for quantifying the welfare effects of fiscal policies in an open economy, with an emphasis on state and local governments in a federalist system. To do this, we develop a model of fiscal policy when there are spillovers and mobility effects from changing taxes and expenditures among competing local jurisdictions. We then derive how mobility and spillovers influence the marginal value of public funds (Hendren, 2016). Because a federal planner internalizes the interjurisdictional externalities, the MVPF for a federal and local planner can diverge substantially. We provide guidance on the additional empirical components of the marginal value of public funds necessary to understand the welfare effects of policies in a federalist system.
- “Tax competition on the extensive and intensive margins”,
D.R. Agrawal (Univ. Kentucky), T. Ly, R. Parchet (Univ. Svizzera italiana)
Tax administration is costly and may discourage some governments from utilizing certain taxes, thus becoming tax havens. This paper develops a tax competition model in which jurisdictions first decide whether or not to levy a tax rate and then decide what tax rate to set to compete for mobile shoppers. We address the following questions: (i) How is the equilibrium tax rate determined when taxing jurisdictions can decide to become tax havens? (ii) How do tax rate and number of tax havens differ when taxes are chosen competitively compared to when they are set by a social planner? We show that when the equilibrium number of tax havens is low [high], a positive fiscal externality dominates [is dominated by] a negative consumption externality, the equilibrium tax rate is lower [larger] and the number of tax havens is larger [lower] than in a social planner equilibrium. Using a dataset of US counties, the model is estimated structurally. We show that the tax rates are around 11% too low and the number of tax havens is up to 17% too high compared to the social optimum.
- “Competition for greener regions: Environmental policy and agglomeration”,
R. Gaté (Univ. Dauphine), S. Legras (INRAE), T. Ly
- “Sorting, tax competition and the rise of local tax heavens”,
T. Ly, R. Parchet (Univ. Svizzera italiana)
- “Can private schools slow down the capitalization of public school quality into house values ? Evidence from Shanghai”,
T. Ly, T. Wang (Univ. Renim China), C. Zhang (Univ. Shanghai), Z. Zhao (Univ. Hong Kong)

TEACHING

2019-2022 23 hours/year	Università della Svizzera italiana, 3 years – Course director - Master: Public Finance Master 1: Full development of the course
2017-2019 192 hours/year	A.T.E.R., 2 years , University Lyon II - Tutorials - Bachelor: Dynamic Macroeconomics Public Economics Microeconomics Mathematics
2015-2017 64 hours/year	A.C.E., 2 years , University Lyon II - Tutorials - Bachelor: Public Economics : Full development of the exercise booklet Mathematics
2012-2013 20 hours/year	University Paris I Panthéon-Sorbonne - Bachelor: Mathematics Statistics

CONFERENCES & PRESENTATIONS

Invited seminar

Secgo, *Economic Geography seminar*, Agro Sup, INRAE, april 2021, online
Cesaer, INRAE, 2019, Dijon, France
Università della Svizzera italiana, 2018, Lugano, Switzerland
Economics and Taxation seminar, University Paris II Panthéon-Assas, 2017, Paris, France

Conference and workshop

Annual Congress of the International Institute of Public Finance, (IIPF) July 2021, online
20th Journées Louis-Andrée Gérard-Varet (LAGV), June 2021, Marseille, France
Swiss Society of Economics and Statistics (SSES) Annual Congress June 2021, online
Workshop on Local Public Finance and Regional Economic, 2020, Berne, Switzerland
Annual Meeting of the National Tax Association (NTA), 2019, Tampa, USA
Annual Meeting of the North American Science Council (NARSC) 2019, Pittsburgh, USA
Association Française de Science Économique (AFSE), 2019, Orléans, France
Workshop on Economics of Taxation and Public Expenditures, 2019, Barcelona, Spain
Workshop on Local Public Finance and Regional Economics, 2019, Lugano, Switzerland
Public Economics at the Regional Level (PEARL), 2018, Zermatt, Switzerland
European Public Choice Society conference, 2018, Rome, Italie
Workshop on Public Policies, Cities and Regions, 2017, Lyon, France
Workshop on Rhône Spatial Economics, 2017, Geneva, Switzerland
Annual Meeting of the Urban Economics Association (UEA), 2016, Minneapolis, USA
Public Economics at the Regional Level (PEARL), 2016, Santiago de Compostella, Spain
Association Française de Science Économique (AFSE), 2016, Nancy, France
Journées de Microéconomie Appliquée (JMA), 2016, Besançon, France

Workshop on Political Economy and Local Public Finance, 2015, Lille, France

Internal seminars

Università della Svizzera italiana, 2020, Lugano, Switzerland

Public Policies and Spatial Economics Seminar, 2017, Lyon, France

Public Policies and Spatial Economics Seminar, 2016, Lyon, France

GATE CNRS, 2015, Lyon, France

Public Policies and Spatial Economics Seminar, 2015, Lyon, France

GATE CNRS, Seminar, 2014, Lyon, France

OTHERS

Languages French (native), English (fluent), German (read)

Software Mathematica, Matlab, Stata, R