

Gabrielle Gambuli

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Research Interests

Digital Economics, Spatial Economics, Remote work, Transportation, Economic Geography

Positions

- 2025–2026 **Postdoc Research Fellow**, Télécom Paris (CREST) & Insee (SSPLab)
Chaire Finance Digitale, with David Bounie (Télécom Paris) and Mélina Hillion (Insee)
- 2024–2025 **Postdoc Research Fellow**, Université Gustave Eiffel (GRETIA) & Insee (SSPLab)
MobiTIC ANR project, with Etienne Côme (UGE) and Marie-Pierre Joubert (Insee)
- 2022–2023 **Teaching & Research Fellow**, THEMA, CY Cergy Paris Université
Attaché Temporaire d'Enseignement et de Recherche, ATER

Education

- 2019–2023 **Ph.D., Economics**, CY Cergy Paris Université
Ph.D., Business Administration, ESSEC Business School
Thesis title: *"Connectivity and Regional Interactions: Empirical Studies on Development Disparities, Collaborative Innovation, and Mobility"*
Supervisors: Sara Biancini and Rodrigo Paillacar
Defense committee: Philippe Gagnepain, Laura Hering, Ivan Ledezma, Cristina Terra
Defense date: December 7th, 2023
- 2019–2020 **M.Sc., Business Administration Research**, ESSEC Business School
- 2017–2019 **M.Sc., Economic Analysis**, CY Cergy-Paris Université & ESSEC Business School
- Fall 2017 **Graduate Exchange Student**, UQAM, Université du Québec à Montréal, Canada
- 2014–2017 **B.Sc., Economics and Finance**, Université de Cergy-Pontoise

Research papers

1. **Gambuli, G., D. Bounie, C. Breton, & E. Côme** (*Job market paper*). The Impact of Telework on Local Consumption: Evidence from Mobile Phone and Transaction Data

Since the COVID-19 pandemic, telework has become a permanent feature of labor markets, with 20% of French workers now teleworking 2-3 days per week. While prior studies have examined how telework affects spending

near residences or workplaces, its net economic impact remains unclear: Does telework merely redistribute consumption, or does it reduce total economic activity? Using novel mobile phone location data and card transaction records from Lyon metropolitan area, France's second-largest region, we provide the first two-sided assessment of telework's effects. We find that a 1% increase in home-based telework raises local spending by 1%, while a 1% increase in workplace absence reduces it by 1.3%, yielding a net 3% decline in aggregate consumption. Home-based gains offset only 57–72% of workplace losses, indicating incomplete substitution, a finding that challenges prior assumptions and suggests telework is a net economic shock. The effects are spatially heterogeneous: urban cores lose 6.8% in transactions, while residential suburbs gain. Sectorally, restaurants decline by 24%, but bars and food retail benefit. These results imply that telework is reshaping urban economies, with significant implications for urban planning, retail policy, and economic geography.

2. **Bounie, D., C. Breton, J. Galbraith, & G. Gambuli** (*work in progress*). *Spatial Interactions of Consumption, Presence, and Mobility: Evidence from Mobile Phone and Transaction Data*

Mobile phone and card transaction data provide valuable insights into measuring individual presence and mobility. Mobile phone data offer continuous observation, while card transaction data reveal the underlying reasons for this presence through consumption activities. This research assesses the similarity and complementarity of mobile phone and card transaction data to evaluate whether detected presence aligns with consumption patterns, in the context of the second-largest functional area in France, Lyon. We analyze temporal and spatial variations in this relationship across different days, times, and geographic areas (city centers, urban and rural suburbs). Additionally, we incorporate data from Insee to identify the types of facilities and amenities most strongly associated with patterns of presence and consumption. Finally, we analyze the causal impact of rare events on presence and consumption. More specifically, we evaluate the effects of centripetal shocks, such as major cultural and sporting events, alongside shocks from increased travel costs, are represented by adverse weather conditions and disruptions in the public transport network.

3. **Gambuli, G.** (*work in progress*). *Redefining Commuting: High-Speed Railways and Workers' Mobility in France*

This paper explores the influence of the French high-speed rail (HSR) network on workers' decisions related to workplace and residence. Utilizing data from the DADS Panel tout salarié and train travel time data from Gambuli and Stipanovic (2023), I employ a gravity model to measure the impact of reduced travel time on commuting adjustments between French departments (NUTS3 regions). Recognizing that HSR-affected department pairs still display long travel time for daily commuting, the analysis integrates considerations for telecommuting opportunities made feasible by internet connectivity. Stratifying the study by socio-professional categories accounts for varying telecommuting possibilities among worker groups. The findings indicate a growing tendency among workers, including executives, employees, and blue-collar workers, to choose separate and distant locations for residences and workplaces. This shift is attributed to both improved territorial connectivity through HSR and enhanced internet access. The combination of these factors offers both convenience and cost reduction for commuting, acting as mutually reinforcing elements.

4. **Gambuli, G., & F. Stipanovic** ([working paper, 2025](#)). *High-Speed Railways and the Geography of Innovation: Evidence from France*.

This paper provides new causal evidence of the impact of train travel time on patent collaboration between inventors. We construct a novel dataset of train travel times in France between 1980 and 2010 and exploit the roll out of High Speed Railways (HSR) as a quasi-natural experiment. The median decrease in travel time of 12% led to a 2.6% increase in patent collaborations across commuting zones. The effect on the increase in collaborations was stronger for most productive commuting zones and the most productive inventors within

them, increasing the collaboration gap across and within regions.

5. **Gambuli, G.** ([working paper, 2023](#)). *Navigating the Geography of Regional Disparities: Market Access and the Core-Periphery Divide*

This paper investigates the impact of market proximity on subnational development worldwide, considering the heterogeneous effects on core and peripheral regions, as well as on countries with different income levels. A gravity-based market potential index is revised to accurately assess distances for land and maritime trips to better capture geographic limitations. Estimations are performed in cross-section with country-fixed effects, by addressing endogeneity issues with instrumental variables. Robustness checks are also conducted with panel data on a smaller sample. The findings reveal that regions with better access to markets and port experience higher regional income per capita, with the effect being higher for wealthier regions. Peripheral regions consistently exhibit a 2 percentage point lower elasticity to market potential compared to core regions. The paper also highlights the potential negative impact of proximity to foreign markets on peripheral regions, especially if they are central to foreign core markets without free trade agreement in place between the respective countries. Results suggest that policies which aim at improving the connectivity of peripheral regions to core domestic markets and develop trade agreements could help mitigate the adverse effects of trade barriers and reduce regional disparities within countries.

Non-academic publications

1. **Arion, G., J. Aude, M. Hillion, G. Gambuli** (Jun. 2025). *Les résidents se déplacent majoritairement en voiture pour se rendre sur leur lieu de travail, à l'exception des cadres résidant au centre du pôle*, Insee Analyses.
2. **Aude, J., I. Debouzy, G. Gambuli, M.P. Joubert, & J. Pramil** (Nov. 2024). *Aire d'attraction de la ville de Lyon : Cinq types de territoires diversement habités et fréquentés*, Insee Analyses.

Teaching Experience

Graduate Level

Winter 2026	Econometrics , Paris I Sorbonne, Magistère Finance (24 total hours) Topics: OLS estimator, tests and inference, heteroskedasticity, fixed and random effects, 2SLS estimator, logit and probit. Applications on R and projects monitoring.
Fall 2022-23	Econometrics , CY Cergy Paris Université (27 total hours) Topics: Finite Sample Properties of OLS, large sample properties, instrumental variable methods, maximum likelihood, applications on R and SAS.

Undergraduate Level

Fall 2022-23	Applied Econometrics , CY Cergy Paris Université (49.5 total hours) Topics: OLS estimator, tests and inference, asymptotic theories, heteroskedasticity, applications on Excel, R, and SAS.
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Winter 2022-23	Macroeconomics II , CY Cergy Paris Université (90 total hours) Topics: Cobb-Douglas function, open economy macroeconomics, Solow Growth model.
Winter 2021	Statistics , CY Cergy Paris Université (15 total hours) Topics: Statistical series representation, dispersion and concentration indicators, two-character series, least squares fit.
Winter 2020-22	Macroeconomics IV , CY Cergy Paris Université (49.5 total hours) Topics: National accounts, balance of payments, exchange market, PPP theory, intertemporal current account, Mundell-Fleming model.
Fall 2019	Macroeconomics I , CY Cergy Paris Université (33 total hours) Topics: Macroeconomic statistics, main aggregates (GDP, inflation, unemployment), economic fluctuations, monetary mechanisms.

Positions of Responsibility

2025	Scientific Committee member, MNO-MINDS conference (Eurostat CROS)
2021-2023	Doctoral student representative, CY Cergy Paris Université
2020-2022	Organizer of THEMA PhD student seminar, CY Cergy Paris Université

Presentations & Conferences

2025	MNO-MINDS (Eurostat CROS) – 11 th AFREN Digital Economics Conference – Télécom Paris Research Retreat – 73 rd Congress of the AFSE – 14 th European Meeting of the UEA – <i>Roundtable on New Data Sources for Mobility</i> , Master's course in Transport and Mobility, École d'Urbanisme de Paris
2024	MNO-MINDS (Eurostat CROS)
2023	24 th ETSG Annual Conference – 71 st Congress of the AFSE – 20 th Augustin Cournot Doctoral Days – THEMA Seminar
2022	Junior Research Day, King's College London & Collège de France – 23 rd ETSG Annual Conference – ITEA 2022 Conference
2021	ESSEC PhD Poster Session – 20 th Doctoral Meetings RIEF – 22 nd ETSG Annual Conference – 21 st SPRU PhD Forum – 31 th ITFA Conference – 18 th Augustin Cournot Doctoral Days
2020	22 nd INFER Annual Conference

Fellowships & Awards

2023	Best Paper Award – 20th Augustin Cournot Doctoral Days Paper: <i>High-Speed Railways and the Geography of Inventors' Collaboration</i>
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2022	Financial support for research – Labex MME-DII, CY Initiative of Excellence
2021	Best Presentation Award – ESSEC PhD Poster Session Paper: <i>High-Speed Railways and the Geography of Inventors' Collaboration</i>
2019–2022	Ph.D. Scholarship – CY Cergy Paris Université
2018	M.Sc. Excellence Scholarship – Labex MME-DII

Other Skills

Languages	French (native language), English (fluent), Italian (conversational)
Softwares	R, Git, \LaTeX
Hobbies	Tennis (30/3), Catamaran, Pasta cooking/eating

References

Postdoc collaborators

- ✉ [BOUNIE David](#), Télécom Paris (CREST)
- ✉ [CÔME Etienne](#), Université Gustave Eiffel (Grettia)
- ✉ [GALBRAITH John](#), McGill University
- ✉ [HILLION Mélina](#), Insee (SSPLab)

PhD supervisors

- ✉ [BIANCINI Sara](#), CY Cergy-Paris Université (Thema)
- ✉ [PAILLACAR Rodrigo](#), CY Cergy-Paris Université (Thema)