Charlotte Liotta

PhD candidate at CIRED and TU Berlin

Research interests

Primary Urban economics and urban modeling for climate policy evaluation.

Secondary Distributional impacts of urban climate policies.

Education

Jan 2021 - Dec 2023 **PhD candidate**, *CIRED (Centre International de Recherche sur l'Environnement et le Développement, Paris) and Technische Universität Berlin.*
- Topic : Large-scale urban modeling for environmental diagnosis and policy.
- Supervisors : Vincent Viguié (CIRED), Felix Creutzig (TU Berlin, MCC).

2018 - 2019 **Master in Economics**, *Ecole Polytechnique and ENSAE, France.*
- Specialization : Urban economics, Development Economics, Environmental Economics, Public Policy Evaluation.
- Master thesis : "Planning for environmental justice – reducing well-being inequalities through urban greening", supervised by Léa Tardieu (INRAE, CIRED) and Yann Kervinio (CIRED).

2016 - 2019 **ENSAE ParisTech**, *Engineering degree in Economics and Statistics.*
- Advanced courses in econometrics, quantitative economics and sociology, and machine learning.
- Specialization : Data Science and Social Sciences

2014 - 2016 **BL - CPGE Lycée Janson-de-Sailly**, *Two years of intensive preparatory courses in Economics and Social Sciences (BL).*

Publications and work in progress

Publications Liotta, C., Viguie, V., Creutzig, F. 2023 *Policy portfolios can reduce GHG emissions in urban transport in 120 cities by 20% while improving welfare.* Nature Sustainability.

Lepetit, Q., Viguié, V., Liotta, C. 2023. *A gridded dataset on densities, real estate prices, transport, and land use inside 192 worldwide urban areas*. Data in Brief 47, 108962.

Viguié, V., Liotta, C., Pfeiffer, B., Coulombel, N. 2023. *Can public transport improve accessibility for the poor over the long term ? Empirical evidence in Paris, 1968-2010*. Journal of Transport Geography 106, 103473.

Liotta, C., Viguie, V., Lepetit, Q. 2022. *Testing the monocentric standard urban model in a global sample of cities*. Regional Science and Urban Economics, 103832.

Liotta, C., Y. Kervinio, H. Levrel, Tardieu, L. 2020. *Planning for environmental justice—reducing well-being inequalities through urban greening*. Environmental Science and Policy 112, 47-60.

Working papers Liotta, C., Avner, A., Hallegatte, S. 2023. *Efficiency and equity issues in flood management policies : a systematic urban economics exploration.* Policy Research Working Papers 10292. World Bank.

Liotta, C., Avner, P., Viguié, V., Selod, H., Hallegatte, S. 2022. *Climate policy and inequality in urban areas : beyond incomes*. Policy Research Working Papers 10185. World Bank.

In progress Liotta, C. *What drives inequalities in Low Emission Zones' impacts on job accessibility ?*

Other writings Liotta, C., Viguié, V. 2021. *Pourquoi les villes continuent-elles à s'étendre ?*. Regards croisés sur l'économie, 28, 178-188.

Conference and Seminar Presentations

2023 **EASM** (Equitable Accessibility and Sustainable Mobility) workshop (Leeds, UK), **ITS Leeds** Seminar, **OFCE** (Observatoire français des conjonctures économiques) Seminar (Paris, France), **CIRED Summer School** (Paris, France).

2022 **Urban Transitions** conference (Sitges, Spain), **MCC** (Mercator Institute on Global Commons and Climate Change) Seminar (Berlin, Germany), **FHI 360** Seminar.

2021 **UEA North American** conference (online), **UEA Summer School** (online), **FAERE conference** (Grenoble, France), **FAERE Doctoral workshop** (online).

2019 **ESP** (Ecosystem Services Partnership) conference (Hanover, Germany).

Teaching

Fall 2022 **"Introduction to Economics" tutorials** (35 hours), Ecole des Ponts ParisTech.

Nov 2022 **Lecture on "Cities and Climate Change"**, as part of the ATHENS program, AgroParisTech.

June 2022 **Lecture on "Cities and Climate Change"**, as part of the course "Introduction to the economic and (geo)political issues of the energy transition and climate change", Ecole des Ponts ParisTech.

Supervision

Spring 2022 Co-supervision of Lou Mandonnet's internship (AgroParisTech) with Vincent Viguié.

Relevant work experience

June - Dec 2020 **Global Facility for Disaster Reduction and Recovery**, *World Bank*.
- Theoretical model for analysis of ex-ante flood management strategies.
- Urban modelling and flood risks analysis in the city of Cape Town.

Nov 2019 - May 2020 **Research Engineer at CNRS - CIRED**, *Urban economics*.
- Urban economics model calibration on various cities worldwide.
- Scenario simulations and environmental evaluations.

May-Nov 2019 **Research intern on green spaces and social inequalities in the Paris metropolitan area**, *CIRED and French Ministry of Environment, Paris*.

Jun-Sep 2017 **Internship at the Economics Department of the OECD**.

Grants

2021-2023 **18-month doctoral fellowship**, ENPC (Ecole des Ponts ParisTech).

2021-2023 **18-month doctoral fellowship**, DAAD (German Academic Exchange Service).

2021-2023 **Paris Est University mobility grant** (10,000 euros).

2020-2021 **Palladio Foundation Research Grant** (10,000 euros).

Miscellaneous

Programming Python, R, Stata, QGIS, MATLAB.

Langages French (native), English (TOEIC 950/990), German (B1 level).

Refereeing *Nature Communications, Journal of Transport Geography, Climatic Change, Regional Studies, Environmental Science and Pollution Research, Empirical Economics, Environment and Planning B, Journal of Environmental Planning and Management.*

Volunteering Rock-climbing teaching (2019-2023), French Red Cross (social action, 2015-2017)