

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 Vigié (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).*

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.**

Publications and work in progress

- Publications**
- Liotta, C., Vigié, V., Creutzig, F. 2023 *Policy portfolios can reduce GHG emissions in urban transport in 120 cities by 20% while improving welfare.* Nature Sustainability.
- Liotta, C., Avner, P., Vigié, V., Selod, H., Hallegatte, S. *Climate policy and inequality in urban areas : beyond incomes.* Urban Climate (Accepted for publication).
- Lepetit, Q., Vigié, 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.
- Vigié, 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., Vigié, 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.

In progress Liotta, C. *What drives inequalities in Low Emission Zones' impacts on job accessibility ?*
Javaid, A., Soomauroo, Z., Ayaragarnchanakul, E., Hu, J., Emodi, N.V., Liotta, C., Ahmad, S., Creutzig, F. *Prevent Carmageddon, facilitate livability : Multi-prong, multi-level policy approaches for rapidly growing cities in developing countries*.

Creutzig, F., Becker, S., Berrill, P., Bussler, A., Cave, B., Constantino, S., Grant, M., Heeren, N., Heinen, E., Hintz, J., Ingen-Housz, T., Johnson, E., Kolleck, N., Liotta, C., Lorek, S., Mattioli, G., Niamir, L., McPhearson, T., Milojevic-Dupont, N., Nachtigall, F., Nagel, K., Närgler, H., Pathak, M., Perrin de Brichambaut, P., Reckien, D., Reisch, L. A., Revi, A., Schuppert, F., Sudmant, A., Wagner, F., Walkenhorst, J., Weber, E., Wilmes, M., Wilson, C., Zekar, A. *By and for people : Towards a public policy of cities and human settlements in the 21st century*.

Policy reports Tardieu L, Viguié V, Hamel P, Lemonsu A, de Munck C., Kervinio Y, Coste L, Claron C, Faure E, Geoffroy E, Liotta C, Mikou M, Ta M-T, Levrel H. (2021). *Prise en compte des services écosystémiques dans les décisions d'aménagement urbain – Méthodologie et retour d'expérience pilote IDEFESE menée en Île-de-France*. Rapport EFESE, La Documentation Française, France.

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.

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).

References

Reference 1 **Vincent VIGUIE**, *CIREN* (Centre International de Recherche sur l'Environnement et le Développement), Paris.

viguie.cired@gmail.com

Reference 2 **Felix CREUTZIG**, *MCC* (Mercator Research Institute on Global Commons and Climate Change), Technische Universität Berlin.

creutzig@mcc-berlin.net

Reference 3 **Stéphane HALLEGATTE**, *The World Bank*.

shallegatte@worldbank.org