Dr. Juste Raimbault

LaSTIG, IGN-ENSG
77420 Champs-sur-Marne, France
☏ +33648136295
✉ juste.raimbault@ign.fr
ORCID: 0000-0003-0768-9480

Positions

Since 2022 — **_Permanent Research Fellow for Sustainable Development_**, _LaSTIG, IGN-ENSG._
Validation of spatial simulation models, Land-use transport interactions, Urban morphogenesis

2019–2021 — **Research Fellow**, _CASA, UCL_, London, UK.
Coupling land-use transport interaction models with microsimulation models

2018–2019 — **Post-doctoral Researcher**, _Complex Systems Institute - UPS CNRS 3611 ISC-PIF_, Paris, France.
Developing methods to validate spatial simulation models

Education

2015–2018 — **PhD in Geography**, _Géographie-cités (UMR 8504 CNRS) / LVMT (UMR-T 9403 IFSTTAR)._
Characterizing and Modeling the Co-evolution of Transportation Networks and Territories

2012–2014 — **MSc Complex Systems Science**, _Ecole Polytechnique (Ingénieur Diplômé)._

2013–2014 — **MSc Urbanism, Environment, Transportation**, _Ecole Nationale des Ponts et Chaussées._

Selected publications

Raimbault J. & Pumain D. (2023). Innovation dynamics in multi-scalar systems of cities. ALIFE 2023: The 2023 Conference on Artificial Life. MIT Press. DOI:10.1162/isal_a_00702

Raimbault, J., & Pumain, D. (2022). Trade-offs between sustainable development goals in systems of cities. _Journal of Urban Management,_ 11(2), 237-245. DOI:10.1016/j.jum.2022.05.008

Nacer-Weill A., Yang C., Barbet T. & Raimbault J. (2022). An agent-based model for modal shift in public transport. _Transportation Research Procedia_, 62, 711–718. DOI:10.1016/j.trpro.2022.02.088

Raimbault, J. & Le Néchet, F. (2021). Introducing endogenous transport provision in a LUTI model to explore polycentric governance systems. _Journal of Transport Geography_, 94, 103115. DOI:10.1016/j.jtrangeo.2021.103115

Raimbault J., Denis E., Pumain D. (2020). Empowering Urban Governance through Urban Science: Multi-Scale Dynamics of Urban Systems Worldwide. _Sustainability_, 12, 5954. DOI:10.3390/su12155954

Raimbault J., Broere J., Somveille M., Serna J.M., Strombom E. Moore C., Sugar L., Zhu B. (2020). A spatial agent based model for simulating and optimizing networked eco-industrial systems. _Resources Conservation and Recycling_, 155, 104538. DOI:10.1016/j.resconrec.2019.104538

Raimbault, J. (2020). Indirect evidence of network effects in a system of cities. _Environment and Planning B: Urban Analytics and City Science_, 47(1), 138-155. DOI:10.1177/2399808318774335

Raimbault, J., & Pumain, D. (2019). Methods for Exploring Simulation Models. In _Pumain D. (ed.), Geographical Modeling (pp. 125-150)._ Wiley Online Library. DOI:10.1002/9781119687290.ch5

Raimbault J., Cottineau C., Le Texier M., Le Nechet F. & Reuillon R. (2019). Space Matters: extending sensitivity analysis to initial spatial conditions in geosimulation models. _Journal of Artificial Societies and Social Simulation_, 22(4), 10. DOI:10.18564/jasss.4136

Raimbault, J. (2019). Exploration of an interdisciplinary scientific landscape. _Scientometrics_, 119(2), 617-641. DOI:10.1007/s11192-019-03090-3

Teaching

ENSG, 2022-2025, Spatial Analysis and Spatial Statistics; **ENPC, 2021-2025** Transport Models; **UCL, 2019-2021**, Urban Simulation; **U. Paris Diderot, 2015-2018**, Spatial Analysis.

Grants

MITI CNRS, 30k€ (2021-2022); **UKCRIC DAFNI Champion grant**, 39k GBP (2020-2021)

Languages

French, _Native_

German, _Fluent, European Baccalaureate_

English, _Fluent_

Mandarin Chinese, _Beginner, level HSK3_