

Dr. Juste Raimbault

Positions

- Since Jan. 2022 **Chargé de Recherche du Développement Durable**, LASTIG, Univ Gustave Eiffel, IGN-ENSG, Saint-Mandé, France.
Validation of spatial simulation models, Land-use transport interactions, Urban morphogenesis
- Apr. 2021–Dec. 2021 **Research Fellow**, *Institute for Global Prosperity*, UCL, London, UK.
Agent-based modeling informal job markets in Lebanon
- Jan. 2019–Oct. 2021 **Research Fellow**, *CASA*, UCL, London, UK.
Coupling land-use transport interaction models with microsimulation models, Scientific workflow systems and modular transport models
- Mar. 2018–Aug. 2019 **Post-doctoral Researcher**, *Complex Systems Institute - UPS CNRS 3611 ISC-PIF*, Paris, France.
Extending methods to explore spatial simulation models
- Feb. 2015–Feb. 2018 **Doctorant Contractuel chargé d'enseignement**, *Université Paris 7 Denis Diderot, UFR GHSS*, Paris, France.
- Sep. 2014–Jan. 2015 **Researcher**, *L2 Technologies*, Paris, France.
Machine learning and complex network analysis for real-time trend detection in financial data
- Sep. 2010–Aug. 2014 **Elève Officier**, *Ecole Polytechnique*, Palaiseau, France.

Education

- Feb. 2015–Feb. 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, *supervised by ARNAUD BANOS and FLORENT LE NÉCHET*.
- June 2016 **SFI Complex Systems Summer School**, *Santa Fe Institute*.
- 2012–2014 **MSc Complex Systems Science**, *Ecole Polytechnique (Ingénieur Diplômé)*.
Agent-based modeling, Evidence-based methods from Therapeutic Evaluation, Theoretical Analysis of Physical Complex Systems, Epistemology, Complex Networks, Datamining, Signal Processing
Dissertation: Complex Network Analysis for Real-time Trend Detection in a Financial System
- 2013–2014 **MSc Urbanism, Environment, Transportation**, *Ecole Nationale des Ponts et Chaussée*.
Analysis of Territorial Systems, Management and design of Transportation Systems, Urbanism, History of Urbanism, Urban Economics
Dissertations: Application of Evidence-based Methods in Urban Planning and Architecture (M1); Discrete Choice Models for Bike-sharing Transportation Systems (M2)
- 2010–2012 **BSc**, *Ecole Polytechnique*.
Multidisciplinary scientific formation (mathematics, computer science, applied mathematics, physics, mechanics, biology, economics)
Research internship in Machine Learning and Artificial Intelligence: Design and implementation of a matching algorithm
- 2007–2010 **CPGE**, *Lycée Henri IV*, Paris, France.

Journal papers

- 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
- Bergeaud, A. & Raimbault, J. (2020). An Empirical Analysis of the Spatial Variability of Fuel Prices in the United States. *Transportation Research Part A: Policy and Practice*, 132, 131-143. DOI:10.1016/j.tra.2019.10.016
- 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. (2019). Second-order Control of Complex Systems with Correlated Synthetic Data. *Complex Adaptive Systems Modeling*, 7(4). DOI:10.1186/s40294-019-0065-y
- Raimbault, J. (2019). Multi-dimensional Urban Network Percolation. *Journal of Interdisciplinary Methodologies and Issues in Science*, 5(5). DOI:10.18713/JIMIS-180719-5-5
- 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., Chasset P.-O., Cottineau C., Commenges A., Kosmopoulos C., Pumain D. & Banos A. (2019). Empowering open science with reflexive and spatialised indicators. *Environment and Planning B: Urban Analytics and City Science*, 2399808319870816. DOI:10.1177/2399808319870816
- Raimbault, J. (2019). Exploration of an interdisciplinary scientific landscape. *Scientometrics*, 119(2), 617-641. DOI:10.1007/s11192-019-03090-3
- Raimbault, J. (2018). Calibration of a density-based model of urban morphogenesis. *PloS one*, 13(9), e0203516. DOI:10.1371/journal.pone.0203516
- Bergeaud, A., Potiron, Y., & Raimbault, J. (2017). Classifying patents based on their semantic content. *PloS one*, 12(4), e0176310. DOI:10.1371/journal.pone.0176310

Book chapters

- Raimbault, J. (2022). Hierarchy and co-evolution processes in urban systems, forthcoming in *Centralities and Hierarchy of Networks and Territories*, Fen-Chong J., ed., ISTE Editions. arXiv:2001.11989
- Raimbault, J. & Pumain, D. (2021). Spatial dynamics of complex urban systems within an evolutionary theory frame, *Handbook Entropy, Complexity, Spatial Dynamics: The rebirth of theory*, Reggiani, A., ed., Edward Elgar. DOI:10.4337/9781839100598.00019
- Raimbault, J. (2021). Modeling the co-evolution of cities and networks. In Rozenblat C., Neal Z. (eds.), *Handbook on Cities and Networks* (pp. 166–193). Edward Elgar. DOI:10.4337/9781788114714
- Pumain D., & Raimbault J. (2020) Perspectives on Urban Theories. In Pumain D. (ed.), *Theories and Models of Urbanization* (pp. 303-330). *Lecture Notes in Morphogenesis*. Springer, Cham. DOI:10.1007/978-3-030-36656-8_16
- Raimbault, J. (2020). Unveiling co-evolutionary patterns in systems of cities : systematic exploration of the SimpopNet model. In Pumain D. (ed.), *Theories and Models of Urbanization* (pp. 261-278). *Lecture Notes in Morphogenesis*. Springer, Cham. DOI:10.1007/978-3-030-36656-8_14
- Raimbault, J. (2020). Relating complexities for the reflexive study of complex systems. In Pumain D. (ed.), *Theories and Models of Urbanization* (pp. 27-41). *Lecture Notes in Morphogenesis*. Springer, Cham. DOI:10.1007/978-3-030-36656-8_3
- 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. (2019). An urban morphogenesis model capturing interactions between networks and territories. In D'Acci L. (ed.), *The Mathematics of Urban Morphology* (pp. 383-409). Birkhauser, Cham. DOI:10.1007/978-3-030-12381-9_17
- Raimbault, J. (2019). Evolving accessibility landscapes: mutations of transportation networks in China. In Aveline N. (ed.), *Pathways of Sustainable Development across China: the Cases of Hangzhou, Datong and Zhuhai* (pp. 89-108). Imago Editor, ISBN:978-88-94384-71-0

Conference papers

- Nacer-Weill A., Yang C., Barbet T. & Raimbault J. (2021). An agent-based model for modal shift in public transport. *Transportation Research Procedia, EWGT2021*. [arXiv:2107.11399](#)
- Raimbault, J. (2021). Integrating and validating urban simulation models. *French Regional Conference on Complex Systems 2021*. [arXiv:2105.13490](#)
- Raimbault, J. & Batty., M. (2021). Estimating public transport congestion in UK urban areas with open transport models. *GISRUK 2021 Proceedings*. [DOI:10.5281/zenodo.4670012](#)
- Raimbault, J. (2020). A model of urban evolution based on innovation diffusion. *The 2020 Conference on Artificial Life*. [DOI:10.1162/isal_a_00283](#)
- Raimbault, J., Perret, J. & Reuillon, R. (2020). A scala library for spatial sensitivity analysis. *GISRUK 2020 Proceedings*. [arXiv:2007.10667](#) ; [Editor](#)
- Raimbault, J. & Perret, J. (2019). Generating urban morphologies at large scales. *The 2019 Conference on Artificial Life 2019 NO. 31*, 179-186. [DOI:10.1162/isal_a_00159](#)
- Raimbault, J. (2017). An applied knowledge framework to study complex systems, *Complex Systems Design & Management* (pp.31-45). [arXiv:1706.09244](#)
- Raimbault, J. (2017). Identification de causalités dans des données spatio-temporelles, Sageo 2017 Proceedings. [DOI:10.5281/zenodo.1006677](#)
- Raimbault, J. (2017). A Discrepancy-Based Framework to Compare Robustness Between Multi-attribute Evaluations. In *Complex Systems Design & Management* (pp. 141-154), Springer. [DOI:10.1007/978-3-319-49103-5_11](#)
- Raimbault, J. (2017). Investigating the empirical existence of static user equilibrium. *Transportation Research Procedia*, 22, 450-458. [DOI:10.1016/j.trpro.2017.03.053](#)
- Raimbault, J. (2017). Models coupling urban growth and transportation network growth: An algorithmic systematic review approach. *Plurimondi*, (17), *ECTQG 2015 Proceedings*. [ISSN:2420-921X](#)
- Raimbault, J. (2014). User-Based Solutions for Increasing Level of Service in Bike-Sharing Transportation Systems. In *Complex Systems Design & Management* (pp. 31-44), Springer. [DOI:10.1007/978-3-319-11617-4_3](#) **Best Student Paper Award at CSDM 2014.**
- Raimbault, J., Banos, A. & Doursat, R. (2014) A Hybrid Network/Grid Model of Urban Morphogenesis and Optimization. *Proceedings of the 4th International Conference on Complex Systems and Applications (ICCSA 2014)*, June 23-26, 2014, Université de Normandie, Le Havre, France; M. A. Aziz-Alaoui, C. Bertelle, X. Z. Liu, D. Olivier, eds.: pp. 51-60. [arXiv:1612.08552](#) ; [Editor](#)

Communications

- Raimbault J., Broere J., Somveille M., Serna J.M., Strombom E. Moore C., Sugar L. & Zhu B. (2021). Agent-based models of industrial symbiosis networks. *Future Days 2021, Paris, November 2021*.
- Morphogenesis, evolution and co-evolution of cities, Poster at *Conference on Complex Systems 2021, Lyon, October 2021*.
- Building simulation models coupling territorial and network dynamics at the interface of disciplines and scales, *Spatial Data Science, Lausanne, June 2021*.
- Raimbault J. & Batty M. (2021). Building and validating modular urban transportation models using scientific workflow systems, *Applied Urban Modeling Global Workshop, Cambridge, Jan. 2021*.
- A co-evolution agent-based model for systems of cities and transportation networks integrating top-down governance through game theory, *Conference on Complex Systems 2020, Dec. 2020*. [DOI:10.5281/zenodo.4419177](#)
- Raimbault J. & Zdanowska N. (2020). A generative model for urban firm networks, *NetSci 2020, Rome, Sept 2020*.
- Worldwide estimation of parameters for a simple reaction-diffusion model of urban growth, *International Land-use Symposium 2019, Paris, Dec 2019*. [HAL:halshs-02406539](#)
- A multi-scalar model for systems of cities, *Conference on Complex Systems 2019, Singapore, Oct. 2019*. [HAL:halshs-02351722](#)
- A meta-analysis of models for interactions between transportation networks and territories. *European Colloquium on Theoretical and Quantitative Geography, Mondorf, Luxembourg, Sep 2019*. [HAL:halshs-02284848](#)
- Raimbault J., Denis E., Pumain D. (2019). An evolutionary theory for the spatial dynamics of urban systems worldwide. *European Colloquium on Theoretical and Quantitative Geography, Mondorf, Luxembourg, Sep 2019*. [HAL:halshs-02284897](#)

Vanhoof M., Godoy-Lorite A., Murcio R., Iacopini I., Zdanowska N., Raimbault J., Milton R., Arcaute E., Batty M. (2019). Using Foursquare data to reveal spatial and temporal patterns in London. *NetMob 2019, Oxford, United Kingdom, Jul 2019*. [HAL:halshs-02284843](#)

De l'endogénéité des hiérarchies dans les systèmes territoriaux complexes. *Journée Des jeunes chercheurs de l'Institut de Géographie : Compter, classer, catégoriser, Paris, Apr. 2019*. [HAL:halshs-02089520](#)

Towards multi-scalar models for the co-evolution of transportation networks and territories. *Theo Quant 2019, Université de Franche-Comté, Besançon, Feb 2019*. [HAL:halshs-02013006](#)

Des systèmes naturels aux systèmes urbains: génération de réseaux de transport optimaux par modèle slime-mould, *poster at Biomim'expo 2018, Paris, Oct. 2018*. [HAL:halshs-01904499](#)

Raimbault, J. (2018). Modélisation des interactions entre réseaux de transport et territoires : une approche par la co-évolution. *Journée d'étude Pacte-Citeres, Grenoble, Nov. 2018*. [HAL:halshs-01933916](#)

A multi-dimensional percolation approach to characterize sustainable mega-city regions, *MARAMI 2018, Avignon, Oct. 2018*. [HAL:halshs-01898864](#)

A systematic comparison of interaction models for systems of cities, *Conference on Complex Systems 2018, Thessaloniki, Sept. 2018*. [HAL:halshs-01880492](#)

Extracting knowledge from simulation models: trends and perspectives from the viewpoint of quantitative geography, *Conference on Complex Systems 2018, Thessaloniki, Sept. 2018*. [HAL:halshs-01882389](#)

Multi-modeling the morphogenesis of transportation networks. In *Artificial Life Conference Proceedings (pp. 382-383)*. Tokyo, July 2018. [DOI:10.1162/isal_a_00073](#)

Modeling Urban Morphogenesis: towards an integration of territories and networks, *GoPro 2017, Lyon, Dec. 2017*. [HAL:hal-01808480](#)

Complexity, Complexities and Complex Knowledge, *Geodiversity International Workshop, Paris, October 2017*. [HAL:halshs-01632331](#)

Modeling the Co-evolution of Urban Form and Transportation Networks, *Conference on Complex Systems 2017, Cancun, Sept. 2017*. [HAL:halshs-01590624](#)

Raimbault J. & Baffi S. (2017). Structural Segregation: Assessing the impact of South African Apartheid on Underlying Dynamics of Interactions between Networks and Territories, *ECTQG 2017, York, Sept. 2017*. [HAL:halshs-01584914](#)

Invisible Bridges ? Scientific landscapes around similar objects studied from Economics and Geography perspectives, *ECTQG 2017, York, Sept. 2017*. [HAL:halshs-01584894](#)

Raimbault, J. & Bergeaud, A. (2017). The Cost of Transportation: Spatial Analysis of Fuel Prices in the US, *EWGT 2017, Budapest, Sept. 2017*. [HAL:halshs-01582909](#)

Cottineau C., Raimbault J., Le Texier M., Le Néchet F. & Reuillon R. (2017). Initial spatial conditions in simulation models: the missing leg of sensitivity analyses?, *Geocomputation 2017, Leeds, Sept. 2017*. [HAL:halshs-01841272](#)

A macro-scale model of co-evolution for cities and transportation networks, *Medium International Conference, Guangzhou, June 2017*. [HAL:halshs-01863229](#)

Losavio C. & Raimbault J. (2017). Agent-based Modeling of Migrant Workers Residential Dynamics within a Mega-city Region: the Case of Pearl River Delta, China, *Urban China Development International Conference, London, May 2017*. [HAL:halshs-01666887](#)

Co-construire Modèles, Etudes Empiriques et Théories en Géographie Théorique et Quantitative: le cas des Interactions entre Réseaux et Territoires. *Treizièmes Rencontres de ThéoQuant, Besançon, May 2017*. [HAL:halshs-01525448](#)

Un Cadre de Connaissances pour une Géographie Intégrée. *Journée des jeunes chercheurs de l'Institut de Géographie de Paris, Paris, April 2017*. [HAL:halshs-01505084](#)

Towards a Theory of Co-evolutive Networked Territorial Systems: Insights from Transportation Governance Modeling in Pearl River Delta, China. *Medium Seminar-Urban Sustainable Development in Zhuhai, Guangzhou, December 2016*. [HAL:halshs-01422484](#)

Models of growth for system of cities : Back to the simple, *Conference on Complex Systems 2016, Amsterdam, Sep 2016*. [HAL:halshs-01370274](#)

Raimbault J., Bergeaud A. and Potiron Y. (2016). Investigating Patterns of Technological Innovation. *Conference on Complex Systems 2016, Amsterdam, Sep 2016*. [HAL:halshs-01370528](#)

For a Cautious Use of Big Data and Computation. *Royal Geographical Society - Annual Conference 2016 - Session : Geocomputation, the Next 20 Years (1), London, Aug 2016*. [HAL:halshs-01358440](#)

Indirect Bibliometrics by Complex Network Analysis. *20e Anniversaire de Cybergeog, Paris, May 2016*. [HAL:halshs-01328058](#)

Raimbault, J. & Serra, H. (2016). Game-based Tools as Media to Transmit Freshwater Ecology Concepts, *poster corner at SETAC 2016, Nantes, May 2016*. [HAL:halshs-01322860](#)

Raimbault, J. (2016). Génération de données Synthétiques corrélées, *Actes des Journées de Rochebrune, January 2016*. [HAL:halshs-01514415](#)

Le Nechet, F. & Raimbault, J. (2015). Modeling the emergence of metropolitan transport authority in a polycentric urban region, *ECTQG 2015, Bari, Sept. 2015*. [HAL:halshs-01272236](#)

Hybrid Modeling of a Bike-Sharing Transportation System, *poster at ICCSS 2015, Helsinki, June 2015*. [HAL:halshs-01330627](#)

Raimbault, J. & Gonzales, J. (2015). Application de la Morphogénèse de Réseaux Biologiques à la Conception Optimale d'Infrastructures de Transport, *poster presented at Rencontres du Labex Dynamite, Paris, May 2015*. [HAL:halshs-01860296](#)

Working Papers

Raimbault, J. (2020). A comparison of simple models for urban morphogenesis. *In revision for PLOS ONE* [arXiv:2008.13277](#)

Raimbault, J., Zdanowska, N. & Arcaute, E. (2020). Modeling growth of urban firm networks. *In revision for PLOS ONE* [arXiv:2009.05528](#)

Raimbault, J. (2021). Trade-offs between sustainable development goals in systems of cities. *Submitted to Journal of Urban Management* [arXiv:2111.1554](#)

Raimbault, J. (2021). Strong coupling between scales in a multi-scalar model of urban dynamics. [arXiv:2101.12725](#)

Raimbault, J. (2021). Urban sprawl and evolution of accessibility profiles in Chinese cities. [arXiv:2112.14319](#)

Raimbault, J. (2021). Complementarity of generative models for road networks. [arXiv:2109.15206](#)

Raimbault, J. (2021). An interdisciplinary bibliometric analysis of models for land-use and transport interactions. [arXiv:2102.13501](#)

Raimbault, J. (2021). A multiscale model of urban morphogenesis. [arXiv:2103.17241](#)

Raimbault, J. (2021). Simulating urban dynamics and international governance of infrastructure projects. [arXiv:2108.13915](#)

Raimbault, J. (2020). Cities as they could be: Artificial Life and Urban Systems. [arXiv:2002.12926](#)

Raimbault, J. (2020). A systematic review and meta-analysis of models coupling transportation networks with territories. [arXiv:2012.13367](#)

Raimbault, J. (2020). An agent-based model of interdisciplinary interactions in science. [arXiv:2006.16399](#)

Raimbault, J. (2019). Modeling interactions between transportation networks and territories: a co-evolution approach. [arXiv:1902.04802](#)

Raimbault, J. (2019). Space and complexities of territorial systems. [arXiv:1901.09869](#)

Raimbault, J. (2018). Co-evolution and morphogenetic systems. [arXiv:1803.11457](#)

Raimbault, J. (2018). Reconciling complexities: for a stronger integration of approaches to socio-technical systems. [arXiv:1805.10195](#)

Grants and Awards

MITI CNRS projects on climate change (LIMMS, MJF, ISC-PIF collaboration), 30k€(2021-2022)

DAFNI UKCRIC Champion grant, Research fellow grant, 39k GBP (2020-2021) (<https://dafni.ac.uk/dafni-champions-2-2/>)

MEDIUM mobility grant, Young Researcher mobility grant for China, MEDIUM project (2016-2017).

PhD grant, *allocation doctorale AMX* for three years from Graduate School, Ecole Polytechnique (2015-2018).

Best Student Paper Award at Conference CSD&M, Paris, December 2014.

Teaching

- Dec. 2021 **Lecture Modeling mobility (2x3h)**, *Ecole des Ponts et Chaussées*, Champs-sur-Marne.
Master TRADD, Cours OACMO
- June 2021 ExModelo summer school on simulation models - III
- April 2021 **Urban Simulation (2x3h Lecture, 2x3h Practical)**, *UTSEUS*, Shanghai (online).
Cycle Ingénieur première année
- Spring 2021 Master thesis supervision (2 students), Smart Cities and Urban Analytics Msc and MRes, UCL
- Dec. 2020 **Lecture Modeling mobility (2x3h)**, *Ecole des Ponts et Chaussées*, Champs-sur-Marne.
Master TRADD, Cours OACMO
- Sept. 2020 ExModelo summer school on simulation models - II
- Spring 2020 Master thesis supervision (2 students), Smart Cities and Urban Analytics Msc, UCL
- April 2020 **Urban Simulation (2x3h Lecture, 2x3h Practical)**, *UTSEUS*, Shanghai (online).
Cycle Ingénieur première année
- Feb. 2020 **Teaching Assistant (5h)**, *UCL*, Urban Simulation.
- 2019 **Lecture Modeling mobility (2x3h)**, *Ecole des Ponts et Chaussées*, Champs-sur-Marne.
Master TRADD, Cours OACMO
- June 2019 **ExModelo summer school on simulation models**, *Organised by ISC-PIF and OpenMOLE team*.
Lecture 5h, Practicals 2h
- 2018 **Lecture Modeling mobility (2x3h)**, *Ecole des Ponts et Chaussées*, Champs-sur-Marne.
Master TRADD, Cours OACMO
- 2018 **Lecture big data in transportation studies (2x2h)**, *Ecole des Ponts et Chaussées*, Champs-sur-Marne.
Master TRADD
- Spring 2017 **Teaching Assistant (64h)**, *Université Paris 7*, Paris, France.
Teaching Assistant: *Statistics and Cartography, Spatial Analysis and Professionalization for Geographers*.
- Feb. 2016 **Lecture Geography and Big Data (3h)**, *Université Paris 1 Sorbonne*, Paris, France.
- Fall 2015 **Teaching Assistant (64h)**, *Université Paris 7*, Paris, France.
Teaching Assistant: *Introduction to Geography and Introduction to GIS*.

Reviewing

- since 2021 Reviewing for *European Physical Letters* (1)
- 2021 Member of the program committee of the French Regional Conference on Complex Systems 2021
- 2021 Member of the program committee of the ACM SIGSIM PADS Conference
- since 2020 Reviewing for *Journal of Transport and Land Use* (1)
- Since 2020 Topic editor for *Land* (ISSN 2073-445X)
- 2020 Member of the program committee of the ACM SIGSIM PADS Conference
- since 2019 Reviewing for *Scientific Reports* (1), *Sustainability* (6), *International Journal of Geographical Information* (1), *Environment and Planning B* (2), *Scientometrics* (3), *Energies* (1), *Applied Spatial Analysis and Policy* (1)
- since 2018 Reviewing for *Ecological Modeling* (1), *Entropy* (1)
- since 2017 Reviewing for *PLoS ONE* (5)
- since 2015 Reviewing for *Cybergeo* (14)

Scientific Activity

- Nov. 2021 ECTQG 2021. Special session organisation: *Exploration and validation of spatial simulation models*
- Oct. 2019 CCS 2019. Satellite organisation: *New methods and epistemologies to explore simulation models - II*
- Sept. 2019 ECTQG 2019. Special session organisation: *Geosimulation models exploration methods*
- 2018 Participation in the CNRS experimental project “*Incubator for scientific mediation*”
- Sept. 2018 CCS 2018. Satellite organisation: *New methods and epistemologies to explore simulation models*
- Sept. 2017 ECTQG 2017. Session organisation: *Bridges between Economics and Geography*
- June 2017 Medium Conference 2017. Session organisation: *Spatio-temporal Behavior in Complex Urban Systems*

Computer skills

OS	Unix (OSX, Ubuntu, CentOS)	Scripts	Shell, AppleScript
Programming	JAVA, Python, Scala, C/C++, OCaml, Haskell	Typography	L ^A T _E X, API OO.org, ScalaTex
Web	php, XHTML, CSS, AJAX	Database	MySQL, MongoDB, PostgreSQL
Scientific	R, NetLogo, Gama, OpenMole, Scilab, Matlab, Gephi	GIS	QGIS, PostGIS, TransCAD, Ocad

Languages

French, *Native*

German, *Fluent, European Baccalaureate*

English, *Fluent*

Mandarin, *Notions, level HSK3*