joaomeirelles

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about

born: 02/07/1989
Rio de Janeiro, Brazil
urbancomplexity.tumblr
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languages

Portuguese native
English fluent
Spanish fluent
German basic

programming

Python
R
SQL
GIS
processing
NetLogo

education

2013 - 2015	**Msc in Complex Systems Modelling** *Scaling Laws in Brazilian Cities*	USP
2014	**Big Data Analytics long term course** *Rio de Janeiro Transportation Network Analysis*	FGV
2014	**XII Summer School on Cities and Complexity** *Evolution of Work Specialization in Cities*	ISCV, Chile
2008–2012	**Environmental and Water Resources Engineering** *Pattern Recognition of Urban Environmental Impact Using Data Mining Tools*	UFF

professional

2014 -	**PENSA - Big Data Team of Rio de Janeiro City Hall** *transportation and environmental data analysis*	Data Scientist
2013	**Institute for Sustainable Development, Ethiopia** *biodigestors and rainwater harvesting systems*	Environmental Engineer
2012 - 2013	**Pereira Passos Urbanism Intitute, Rio** *data analysis and geoprocessing*	Intern
2011 - 2012	**UN-Habitat / ROLAC, Rio** *urban indicators analysis*	Intern
2010 - 2011	**Aqua Modelo, Rio** *hydrological studies and hydrodynamic modelling*	Intern

academic

2015	**Co-advisor of Undergraduate Final Project** project *Spatial-Temporal Patterns in Soil Contamination in Itaborai-RJ*	UFF
2014	**5ªMeeting on Complex Systems** talk *Cities as Complex Systems*	UNESCO Complex Systems Digital Campus
2014	**Teacher Assistant on Digital Image Processing and GIS** tutorials and practical lessons	USP
2014	**Research Project on ABM + GIS** development of a agent based model with GIS of riots	USP
2013	**Research Project on Numerical Weather Prediction for Rio** development of mathematical models of weather predictions	UFF
2011 - 2013	**Research Project Water Oriximina** temporal and spatial analysis of water quality	UFF
2011 - 2013	**Research Project Ecorrauze** architecture environmental impact assessment	UFF
2011	**Teacher Assistant on Public and Environmental Health** tutorials and practical lessons	UFF

publications

2015	**19th International Conference on Circuits, Systems, Communications and Computers**
	accepted paper: *Using Buses GPS data to measure changes in the quality of public transportation*

2015	**2015 International Conference on Location-based Social Media**
	accepted paper: *Digital footprints in the city - Segregation in networks*

2014	**5th World Congress on Social Simulation**
	accepted paper: *London Riots with ABM+GIS*

2014	**XIX National Encounter on Demographic Studies** ABEP
	accepted paper: *Urban Mobility in Rio de Janeiro*

2014	**XIV Brazilian Congress on Geology of Environmental Engineering** ABGE
	paper published *Performance Evaluation of High-Resolution Ensemble Prediction Models for Rio de Janeiro Region*

2013	**2ªJourney on Urban Modeling and Morphology** UFPEL
	paper published *Patterns of Urban Environmental Impacts*

2012	**5th Urbenviron International Seminar** UNB
	paper published *Application of Life Cycle Assessment in The Evaluation of The Environmental Impact of Cities*

2012	**Regional Urban Observatory in the Fluminense Region** UN-Habitat
	book chapter *Monitoring Socioeconomic Indicators of the Municipalities*

2012	**2nd Symposium on Environmental Geochemistry of the Tropics** UFF
	paper published *Space-time assessment of water quality and it's correlation with waterborne diseases in Oriximiná (PA) - Brazil*

courses

Dynamical Systems in Biology – ICTP-SAIFR
Computing for Data Analysis – Coursera (MOOC)
Data Visualization – Coursera (MOOC)
Model Thinking – Coursera (MOOC)
Introduction to Dynamical Systems and Chaos – Complexity Explorer (MOOC)
Introduction to Complexity – Complexity Explorer (MOOC)
Tools and Methodologies for Sustainable Cities – UN-Habitat
Urban Ecology – Universidad Autonoma de Madrid
Green Infrastructure – InVerde
Eco-design – UFRJ
Environmental Planning – UFF