

# Juste Raimbault

## Curriculum Vitae

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### Publications

Raimbault, J. & Marandon E. (2015). Optimizing the Extraction of Information from a Complex System, *submitted to EPJ Data Science*.

Raimbault, J. (2015). Inference of Discrete-Choice Parameters by Coupling Statistical Analysis and Agent-based Modeling, *submitted to ICCSS 2015 (Helsinki, June 2015)*.

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 International Publishing.

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.

### Communications

Loeve, S., Raimbault, J. & al. (June 2014). Student Event, at *Workshop Worldviews and Values in Synthetic Biology, University Paris 1 Sorbonne, June 6-7, 2014* (<http://synenergene.eu/resource/student-event-paris-workshop-worldviews-and-values-synthetic-biology>).

Raimbault, J., 14 March 2014, When open data are incomplete : inference of missing data for model parameterization, *lightning talk at Scientific Open Data Conference, IGN St Mandé* (<http://sodata.org/>).

### Education

- 2012–2014 **MSc Complex Systems Science**, *Ecole Polytechnique ParisTech*, Palaiseau, France.  
Agent-based modeling, Evidence-based methods from Therapeutic Evaluation, Theoretical Analysis of Physical Complex Systems, Epistemology, Complex Networks, Datamining, Signal Processing
- 2013–2014 **MSc Urbanism, Environment, Transportation**, *Ecole Nationale des Ponts et Chaussées ParisTech*, Marne-la-Vallée, France.  
Analysis of Territorial Systems, Management and design of Transportation Systems, Urbanism, History of Urbanism, Urban Economics, Environmental Planning and Design
- 2010–2012 **BSc**, *Ecole Polytechnique ParisTech*, Palaiseau, France.  
Multidisciplinary scientific formation (mathematics, computer science, applied mathematics, physics, mechanics, biology, economics)

### Professional experience

- Aug.–Dec. 2014 **Research internship**, *L2 Technologies*, Paris, France.  
Complex Network Analysis for Real-Time Trend Detection
- Sept. 2012 –Dec. 2013 **Research projects in complex systems science**.  
Urban planning projects under the supervision of HDR. A. BANOS (ISCIPIF, Paris)
- April–Sept. 2013 **Research internship**, *Chalmers University of Technology, Department of Architecture*, Goteborg, Sweden.  
Application of evidence-based methods in Urban Planning and Architecture
- July–Sept. 2012 **Company internship**, *The Kube SA*, Paris, France.  
Design and implementation of an intelligent matching algorithm

### Computer skills

OS	Unix (MacOS), Windows	Scripts	Shell, AppleScript
Programming	JAVA, C/C++, Python, OCaml	Typography	L <sup>A</sup> T <sub>E</sub> X, API OO.org
Web	php, XHTML, CSS, AJAX	Database	MySQL, MongoDB
Scientific	NetLogo, Gama, R, Scilab, Matlab, Freefem++	GIS	QGIS, PostGIS, TransCAD, Ocad