# Juste Raimbault

Curriculum Vitae

 $10 \ {\rm rue} \ {\rm Ferdinand} \ {\rm Flocon} \\ 75018 \ {\rm Paris}, \ {\rm France} \\ \varnothing) \ +33648136295 \\ \boxtimes \ {\rm juste.raimbault@polytechnique.edu}$ 

## **Publications**

Raimbault, J. (2015). Models Coupling Urban Growth and Transportation Network Growth: An Algorithmic Systematic Review Approach, *submitted to ECTQG 2015*.

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

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. 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.

#### Communications

Raimbault, J. (2015). Hybrid Modeling of a Bike-Sharing Transportation System, poster presented at ICCSS 2015 (Helsinki, june. 2015).

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).

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

since Feb. 2015 PhD in Geography, Géographie-Cités (UMR 8504 CNRS) / LVMT (UMR-T 9403 IFSTTAR),

Towards Coupling Transportation Networks and City Growth in Complex Urban Systems Models, under the supervision of HDR A. BANOS and MCF F. LE NECHET.

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 Paris Tech, 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, mecanics, biology, economics)

## Professional experience

Aug.-Dec. 2014 Research internship, L2 Technologies, Paris, France.

Complex Network Analysis for Real-Time Trend Detection in a Financial System

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, CentOS)

JAVA, C/C++, Pyhton, Scala,

OCaml

Programming

Web php, XHTML, CSS, AJAX

Scientific NetLogo, Gama, R, Scilab, Matlab, Gephi, Freefem++

Scripts Shell, AppleScript

Database MySQL, MongoDB

GIS QGIS, PostGIS, TransCAD, Ocad