

# 3e Journée de l'atelier SoDUCo-BnF

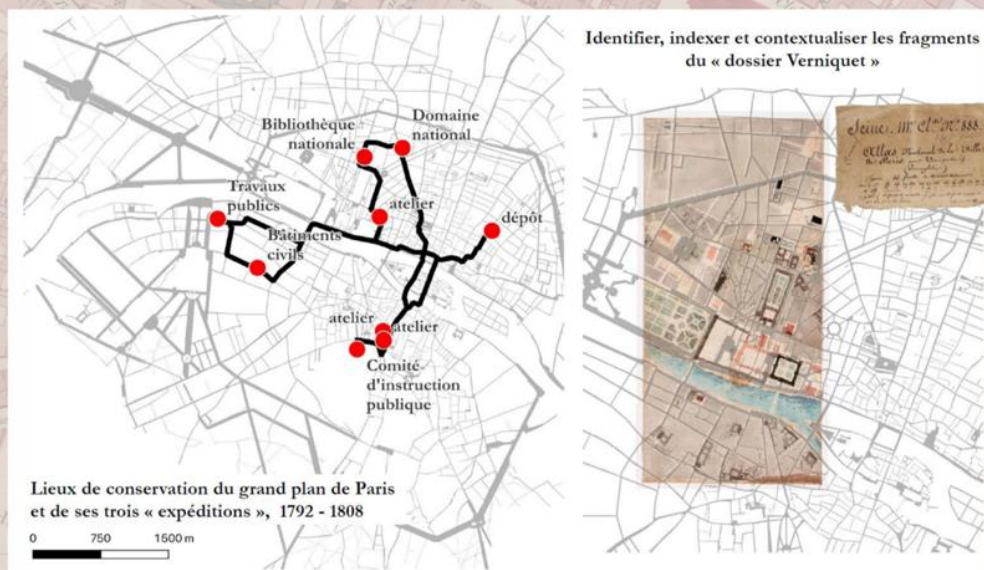
Mardi 23 Mai 2023, 09h30-17h30

Bibliothèque nationale de France, 5 rue Vivienne, site Richelieu, Paris

Journée ouverte au public, inscription obligatoire sur [https://soduco.github.io/soduco\\_bnf\\_seminars/](https://soduco.github.io/soduco_bnf_seminars/)

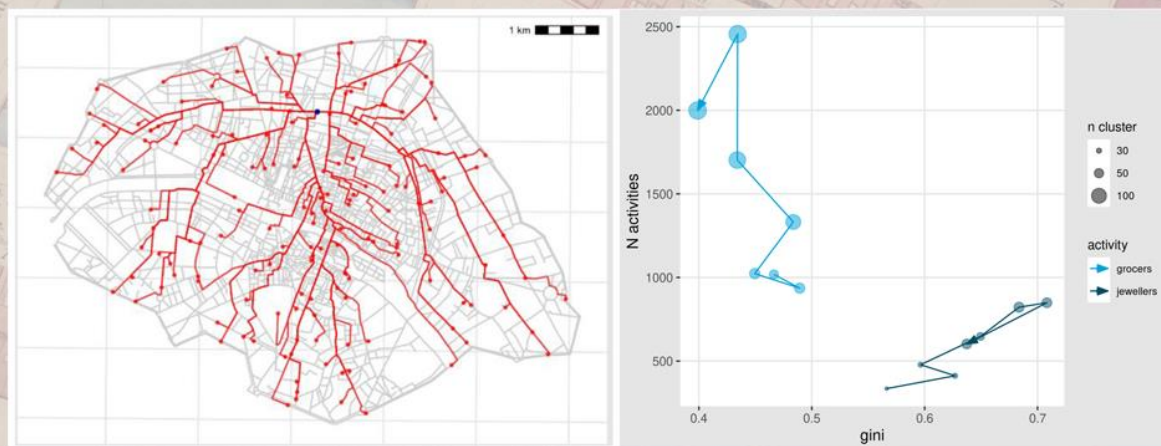
Matinée

## Le circuit de traitements des documents cartographiques des XVIII<sup>e</sup> et XIX<sup>e</sup> siècles à la BnF



Après-midi

## Analyses spatiales formalisées de données géo-historiques Co-évolution spatiale et sociale de la ville de Paris 1799-1908



Crédit images : (1) Baciocchi S. & A. Aniesa; *Le dossier Verniquet. Introduction à l'édition critique / numérique de l'Atlas du plan général de la ville de Paris (1795)*. 1ère journée Atelier SoDUCo-BnF, 11 avril 2022, BnF, Paris. (2) Gravier J. & Barthelemy M. *Exploitation des données Soduco : premiers éléments de l'évolution des activités parisiennes au fil du siècle*, 2ème journée Atelier SoDUCo-BnF, 10 nov. 2022, BnF, Paris.  
Image d'arrière plan : SHD, GR/6/M/J10/C/1188/001 Atlas de Verniquet, vue 65



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# SoDUCo-BnF seminar : 3rd session

Tuesday 23rd May 2023, 09h30-17h30

Bibliothèque nationale de France, Site Richelieu, 5 Rue Vivienne, 75002 Paris.

## Morning

### Processing historical maps from XVIII<sup>TH</sup> and XIX<sup>TH</sup> centuries at BnF

The *Cartes & Plans* department from *Bibliothèque nationale de France* and the SoDUCo team propose to discuss with professionals involved in the processing of cartographic documents from the 18th and 19th century. It will be organised into three breakout sessions in which all participants will participate successively.

- history of collections and preservation treatment : presentation of documents and visit of *Cartes & Plans* storages.
- bibliographic processing : cataloguing, place entities and associated services (including *Data BnF*)
- digitalisation and diffusion : digitalisation policy, diffusion policy and implementation in *Gallica* through IIF.

## Afternoon

### Spatial analysis of geo-historical data.

#### Spatial and social co-evolution within the city of Paris 1799-1908

Organisers: Julie Gravier (SoDUCo - EHESS) and Juste Raimbault (SoDUCo - IGN)

Following the second SoDUCo-BnF seminar focused on commercial *Almanachs* and *Annuaire*s for Paris during the XIX<sup>TH</sup> century, the second half of the seminar will explore formalised spatial analysis methods which can be applied to the data drawn from these sources.

The dataset constructed contains the location of individuals and their activities, at the address spatial resolution and with a yearly frequency. Growing larger in time and with publications, the current corpus gathers around 10Mio directory entries through the century<sup>1</sup>. These *precise and massive* data allow investigating urban dynamics at various temporal and spatial scales, furthermore at a period during which the mutations of the city are particularly significant (population growth, urban densification, urban street network reorganisation, industrialisation, etc.). These form therefore a robust basis for empirical enquiries to test multiple hypothesis. They become therethrough a scientific medium to confront viewpoints and analysis approaches, at the crossroads of multiple disciplines.

Starting from the same corpus of open data, more precisely list of addresses in alphabetical order of individual names between 1799 and 1908, the seminar will aim at developing two dialogues. On the one hand, different disciplinary research streams linked to quantitative urban sciences will be presented and discussed ; on the other hand, these various approaches will be empirically tested on the dataset. These dialogues will be built by alternating keynotes and applications. This will highlight the complementarity of disciplines to understand urban dynamics, while discussing methodological issues linked to such data when testing assumptions on co-evolution processes.

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<sup>1</sup> ANNUAIRES HISTORIQUES PARISIENS, 1798-1914. Extraction structurée et géolocalisée à l'adresse des listes nominatives [par ordre alphabétique et par activité] dans les volumes numérisés, SoDUCo Team, mars 2023, Paris. DOI :

# 3<sup>rd</sup> Session of the SoDUCo-BnF seminar

## Preliminary program

\*\*\* Morning, registration 9h15 \*\*\*

### PROCESSING HISTORICAL MAPS FROM THE 18<sup>TH</sup> AND 19<sup>TH</sup> CENTURIES AT BNF

09h30. Opening of the seminar

09h40. The *Cartes & Plans* department from *Bibliothèque nationale de France* and the SoDUCo team propose to discuss with professionals involved in the processing of cartographic documents from the 18th and 19th century. It will be organised into three breakout sessions in which all participants will participate successively :

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12h00. Lunch break.

\*\*\* Afternoon, starting at 13h15 – Chair : *Claire Lagesse* \*\*\*

### SPATIAL ANALYSIS OF GEO-HISTORICAL DATA.

#### Spatial and social co-evolution within the city of Paris 1799-1908.

13h30. Introduction. Claire Lagesse, Lecturer, *Théoriser & Modéliser pour Aménager (ThéMA)*, Université Bourgogne Franche-Comté.

13h35. *Keynote*: Denise Pumain, Emeritus Professor, *Géographie-Cités*, Université Paris I Panthéon-Sorbonne : *A geo-historical theory of systems of cities: co-evolution of urban trajectories*.

14h05. *Application*: Juste Raimbault, Research fellow, *Laboratoire des Sciences et Technologies de l'Information Géographique (LaSTIG)* de l'Institut national de l'information géographique et forestière (IGN) : *Quantifying co-evolution of socio-economic activities with geo-historical data*.

14h20. *Application*: Farbod Afshar Bakeshloo, PhD candidate, *The Bartlett School of Architecture*, University College London : *A tale of one street: the spatio-functional character of Rue de Rivoli before and after Haussmann..*

14h35. Break

14h50. *Keynote*: Marc Barthelemy, Research Director, *Institut de Physique Théorique*, Commissariat à l'Energie Atomique et aux Energies Alternatives (CEA) : *Evolution of urban structures*.

15h20. *Application*: Julie Gravier, Postdoc, *Centre de recherches historiques (CRH)* et *Centre d'analyse et de mathématique sociales (CAMS)*, Ecole des hautes études en sciences sociales: *Evolution of the urban structure of Paris during the 19<sup>th</sup> century. Building a temporal typology of urban activity categories*.

15h35. *Keynote*: Pierre-Philippe Combes, Research Director at CNRS, *Département d'économie*, Sciences-Po : *(Machine) Learning from Historical Maps: Land Use and Urbanisation, France c. 1760-2020* (\*)

(\*) : Co-authors: Gilles Duranton (Wharton, University of Pennsylvania), Laurent Gobillon (Paris School of Economics), and Clément Gorin (University of Toronto).

16h05. *Cas d'application*: Antonin Bergeaud, Assistant Professor, *Département d'économie*, École des hautes études commerciales de Paris (HEC) Paris : *Concentration of economic activities in 19<sup>th</sup>-century Paris*.

16h20. Break

16h55. Panel discussion moderated by Claire Lagesse, Lecturer, *Laboratoire Théoriser & Modéliser pour Aménager (ThéMA)*, Université Bourgogne Franche-Comté.

17h30. End of the seminar.



# Social dynamics in urban context : tools, models and open data Paris and its suburbs, 1789-1950

The research program *Social dynamics in urban context* (SoDUCo, <https://soduco.github.io/>) is funded by *Agence Nationale de la Recherche* (ANR). It gathers researchers and engineers from the *Geohistoricaldata* group, affiliated with *Ecole des hautes études en sciences sociales* (EHESS, LaDéHis-CRH-CAMS), with *Laboratoire des Sciences et Technologies de l'Information Géographique* (LaSTIG) at *Institut national de l'information géographique et forestière* (IGN), with *Laboratoire de recherche et développement* (LRDE) at *École Pour l'Informatique et les Techniques Avancées* (EPITA), and with *Centre de topographie historique de Paris* (CTHP) at *Archives Nationales*.

See also : progr. [SoDUCo](#), Groupe [Géohistoricaldata](#) ([Site](#) and [Wiki](#)) and associated repositories on [Github](#), [Harvard Dataverse](#), [Didómena](#), [Nakala](#) et [Zenodo](#)



## { BnF Séminaire BnF/SoDUCo

In 2022-2023, the SoDUCo team and BnF organise a joint seminar, the **SoDUCo-BnF seminar**. It aims at diffusing and questioning the research done within the project, and at animating dialogues between researchers and professionals in document conservation on common objects and projects ranging from the exploitation of documents (maps, commerce directories) to the production and diffusion of open data (historical geocoding, spatial analysis, open science). More details on [https://soduco.github.io/soduco\\_bnf\\_seminars/](https://soduco.github.io/soduco_bnf_seminars/)

Org. team : A. Aniesa, P. Chevallier, J. Garel-Grislin, C. Ion, O. Loiseaux, J.-D. Mellot, J.-P. Moreux, E. Netchine (BnF), N. Abadie, C. Bernard, M. Hersent, J. Perret, J. Raimbault, S. Tual (IGN), E. Carlinet, J. Chazalon, M. Puren (EPITA), S. Baciocchi, M. Barthelemy, P. Cristofoli, B. Dumenieu, J. Gravier, M. Fernandez (EHESS), V. Rebolledo-Dhuin (UPEC) et P.A Le Ny (LeNy Conseil).

- 1<sup>th</sup> Session : *Paris, geodesic capital. Atlas and maps at large scales: 1780 - 1950*. Lundi 11 avril 2022, Paris, Bibliothèque nationale de France, Belvédère du site François-Mitterrand (18e étage tour T2).
- 2<sup>th</sup> Session : *Relocating addresses from commerce directories, Paris, XIXth century. A corpus of urban locations at a large scale*, Jeudi 10 novembre 2022, 2<sup>nd</sup>e Journée de l'Atelier BnF-SoDUCo, Paris, Bibliothèque nationale de France, Site François-Mitterrand, en salle 70.
- 3<sup>rd</sup> Session : *Processing historical maps from the 18<sup>th</sup> and 19<sup>th</sup> centuries at BnF – Spatial analysis of geo-historical data* (Mardi 23 Mai 2023, 9h30-17h30, BnF Site Richelieu, 5 Rue Vivienne, 75002 Paris)
- 4<sup>th</sup> Session : *Open data, open tools, collaborative and participative science* (BnF, Automne 2023)

The 3<sup>rd</sup> session of the SoDUCo-BnF seminar is open to the public.

It will take place on 23th mai 2023 at BnF, Site Richelieu,  
in **conference room**.

**Registration mandatory at the following link :**

<https://evento.renater.fr/survey/inscriptions-a-la-3eme-journee-soduco-bnf-23-mai-2023-m3qnah52>

The seminar will also be accessible through video-conferencing, with access through registration.

Organisation and informations :

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