



JOB POSITION

Post-doctoral fellow in Applied Economics-Statistics

the analysis of the relationship between regional disparities in development (and quality of life) and territorial capital endowments

The French National Research Institute for Agriculture, Food and the Environment (INRAE) is a public institution with more than 11,000 agents across the French territory. Inra is the first European agricultural research institute and produces scientific knowledge and works for economic and social innovation in the areas of food, agriculture and environment. It focuses on issues related to agriculture, food and environment, with a particular emphasis on sustainable development and agroecology.

WORKING ENVIRONMENT AND ACTIVITIES

■ **You will work in the Research Unit Environment, Territories and infrastructures (ETBX)** of INRAE New Aquitaine in center of Cestas Gazinet. This team is composed of 35 permanent researchers in social sciences (economy, sociology, geography, political sciences), agronomic and statistics, is specialized in the analysis of socio-economic transformations of territories facing environmental issues and global change.

■ **You will join the research team of project QuaLitto** « Quality of life and territorial development trajectories of coastal territories in New-Aquitaine Region : spatial , methodological issues and empirical approaches » (<https://qualitto.inrae.fr/>, financed by New-Aquitaine Region, 2019-2021). The ranking of the best cities to live in has grown considerably in recent years. In a context of globalization and high mobility of production factors, recent empirical literature tends to show that metropolises supply decisive social and economic opportunities. Those that are particularly valued for their living environment are likely to stand out by attracting the preference of companies seeking to attract new talents, by widening the growth differential with other metropolises, and - more sustainably - by consolidating a structural advantage in terms of territorial capital. The latter encompasses a combination and accumulation of material and immaterial non-delocalizable resources, and the human and institutional means to locally control access, use and benefits of it. Territorial capital could also act as economic shock-absorber by facilitating the regional economic resilience when a crisis strikes. However, the concentration of activities and inhabitants within metropolises and the resulting growing pressure on urban infrastructure and services raise negative externalities (air pollution, decline in accessibility...), altering the formation and renewal of territorial capital. Therefore, medium-sized cities could feed regional growth models, allowing to benefit from the positive externalities associated with agglomeration effects, while preserving a valued environment to live in. The coastal regions of the French Atlantic coast offer a laboratory for observing and analyzing such territorial development trajectories, both in terms of quality of life and in terms of economic activity dynamics. The objective of one of the research components of the QuaLitto project is to develop an empirical approach that would focus on the main territorial factors explaining these trajectories in all their diversity.

■ **More particularly you will have to :**

- identify statistical links between the development dynamics associated with economic activities (employment growth, labour productivity, etc.) and the territorial capital endowment of the regions under consideration (accessibility, skills of the active population, level of equipment and public services, etc.) to explain the ongoing process;
- conduct this analysis on the scale of French living area units and their territorial subsets;
- develop the adequate methodology by exploring spatial multivariate statistical analysis;
- compare obtain results with the spatialized version of clustering *ClustGeo*, recently developed by the the welcoming team, with those obtained via other multivariate approaches integrating spatial component for the analysis of regional economical dynamics.

TRAINING AND SKILLS REQUIRED

- You are Ph.D. in economics or applied mathematics with a specialization in statistics.
- You will have to demonstrate skills and experience in the field of statistical analysis of economic activities.
- Knowledge of regional/territorial economics, geographic economics or regional planning will be appreciated.

↘ Application contacts

- About the job description :

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Vanessa Kuentz-Simonet, Researcher in statistics, tina.rambonilaza@inrae.fr, Tél. : +33 5 57 89 08 37

- About administrative aspects :

Catherine Rodriguer, Administrator of Research Unit ETBX, catherine.rodriguez@inrae.fr, Tél. : +33 5 57 89 01 61

↘ Reception conditions

- Research unit and location : Inrae Nouvelle-Aquitaine, center of Cestas-Gazinet, Research Unit Environnement, Territories and infrastructures (ETBX)
- Type of contract: fixed-term contract
- Duration : 12 months
- **Starting date : November 2nd, 2020**
- Remuneration : 2371,13€ as a minimum

↘ How to apply

- Send a CV, a 2 or 3 page- document describing your appropriation of the subject, and any document (publications or other) that the candidate believes may be useful for the decision-making process.
 - By e-mail :
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- ❌ **Deadline for applications : June 30th, 2020**

Key references :

- Bouba-Olga O., Grossetti M., (2019), Le récit métropolitain : une légende urbaine, L'information géographique, 83(2), pp. 72-84.
- Catin M., Van Huffel Ch., (2019), Disparités de croissance d'emploi des aires urbaines françaises et processus de métropolisation. Le rôle des fonctions métropolitaines, productives et des revenus extérieurs. Revue d'Économie Régionale & Urbaine, 4, pp. 749-779.
- Chavent, M., Kuentz-Simonet, V., Labenne, A., Saracco, J., (2018), ClustGeo: an R package for hierarchical clustering with spatial constraints. *Computational Statistics*, 33, pp. 1799-1822.
- Kuentz-Simonet V., Labenne A., Rambonilaza T., (2016), Using ClustOfVar to construct Quality of Life indicators for vulnerability assessment - Municipality trajectories in southwest France from 1999 to 2009, Social Indicators Research, pp. 1-25.
- Ruault J.-Fr. (2018), Beyond tourism-based economic development: city-regions and transient custom, Regional Studies, 52(8), pp. 1122-1133.
- Talandier M., (2019), Métropoles et territoires : Et si on parlait "réciprocité" ? Tendances.