

Ewen GALLIC

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RESEARCH INTERESTS

Applied Econometrics, Machine Learning, Environmental Economics

CURRENT AND PREVIOUS POSITION

2018 –	Assistant Professor, Aix-Marseille University & Aix-Marseille School of Economics (AMSE), Marseille, France
2017 – 2018	Postdoctoral researcher, Institut Louis Bachelier and CREM UMR CNRS 6211, Rennes (France).
2013 – 2017	Teaching and Research Assistant, University of Rennes 1 and CREM UMR CNRS 6211, Rennes (France).
2013 – 2016	Doctoral Scholarship from Ministry of Research, Rennes (France).

EDUCATION

2013 – 2017	Ph.D. student in Economics, University of Rennes 1, France. Advisor: Catherine BENJAMIN. Thesis title: “ <i>Climate Change and Agriculture</i> ”. Committee: <ul style="list-style-type: none">◦ Pascale Combes-Motel – Université d’Auvergne◦ Jean-Paul Chavas – University of Wisconsin (rapporteur)◦ Jean-Christophe Poutineau – CREM, Université de Rennes 1◦ Katheline Schubert – Paris School of Economics, Université Paris 1 Panthéon-Sorbonne◦ Alban Thomas – INRA, Toulouse School of Economics (rapporteur)
2012 – 2013	Master of Statistics and Econometrics (with Highest Honours), University of Rennes 1, France.
2011 – 2012	MSc in Statistics and Econometrics, University of Rennes 1, France, Study Abroad: University of Montreal, Qc, Canada.
2008 – 2011	B.S in Economics, University of Rennes 1, France.

PUBLISHED ARTICLES

- Gallic, E., Lubrano, M., & Michel, P. (2021). [Optimal lockdowns for COVID-19 pandemics: Analyzing the efficiency of sanitary policies in Europe](#). *Journal of Public Economic Theory*, 1–24. doi: [10.1111/jpet.12556](https://doi.org/10.1111/jpet.12556)
- Charpentier, A & Gallic, E (2020). [La démographie historique peut-elle tirer profit des données collaboratives des sites de généalogie ?](#). *Population*, 75(2-3), 391-421. doi : [10.3917/popu.2002.0391](https://doi.org/10.3917/popu.2002.0391)
- Gallic, E & Vermandel, G. (2020). [Weather Shocks](#). *European Economic Review*, 124, 103409. doi: [10.1016/j.euroecorev.2020.103409](https://doi.org/10.1016/j.euroecorev.2020.103409)
- Charpentier, A & Gallic, E (2019). [Using collaborative genealogy data to study migration: a research note](#). *The History of the Family*, 25:1, 1-21. doi: [10.1080/1081602X.2019.1641130](https://doi.org/10.1080/1081602X.2019.1641130)
- Gallic, E, Poutineau, J.-C. & Vermandel, G (2017). [L’impact de la crise financière sur la performance de la politique monétaire conventionnelle de la zone Euro](#). *Revue Économique*, 68(HS1), 63-86. doi: [10.3917/reco.hs02.0063](https://doi.org/10.3917/reco.hs02.0063)
- Charpentier, A. & Gallic, E. (2015). [Kernel density estimation based on Ripley’s correction](#). *GeoInformatica*, 1-22. doi: [10.1007/s10707-015-0232-z](https://doi.org/10.1007/s10707-015-0232-z)

WORKING PAPERS

- [Optimal Transport for Counterfactual Estimation: A Method for Causal Inference](#). (2023), with A. CHARPENTIER and E. FLACHAIRE, arXiv:2301.07755.
- [Modeling Joint Lives within Families](#). (2020), with O. CABRIGNAC and A. CHARPENTIER, halshs-02871927.
- [Airbnb in Paris : Quel impact sur l’industrie hôtelière ?](#) (2018), joint with V. MALARDÉ, hal-01838059
- [Recovering the French Party Space from Twitter Data](#) (2015), joint with F. BRIATTE, halshs-01511384.

WORK IN PROGRESS

- *The Dynamic Effects of Weather Shocks on Agricultural Production*, with C. CROFILS and G. VERMANDEL
- *Impact of socio-economic determinants on the speed of epidemic diseases. A comparative analysis*, with G. DUFRENOT, P. MICHEL, N. M. BONOU, S. GNABA and I. SLAOU
- *Distances Between Text Documents. Application to the French Job Market* with P. MICHEL and M. RAUX
- *The imaginary healthy patient*, joint with A. BA, P. MICHEL, A. PARAPONARIS, J. SPINNATO

OTHER SCIENTIFIC OUTPUT

- Introductory book on R (in French).
- Slides accompanying the chapters of the book: [getting started](#), [data](#), [tables](#), [functions](#), [loops and vectorization](#), [plots with ggplot2](#), [linear regression](#).
- e-Book «Python for economists».
- Crash course on R.
- R Package «[kdeborder](#)» to correct border bias in the estimation of kernel densities for point processes.

CONFERENCES, WORKSHOPS AND SEMINARS

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| 2021 | Seminar , LEM
<i>The Imaginary Healthy Patient</i>
Lille, France, 2 February. |
| 2020 | Seminar , LEMNA
<i>The Imaginary Healthy Patient</i>
Nantes, France, 12 February. |
| 2019 | Seminar , Lundis de l'INED
Discussion of the article " <i>La grande régression</i> " by Julien Boelaert
Paris, France, 17 June.

Thematic School , TEPP-CNRS Evaluation of Public Policy,
<i>Étude de la démographie française du XIXe siècle à partir de données collaboratives de généalogie</i> .
Aussois, France, 18–22 March. |
| 2018 | Conference , 7th R Meeting,
<i>Étude de la démographie française du XIXe siècle à partir de données collaboratives de généalogie</i>
Rennes, France, 5–7 April.

Conferences , Chairs Days: Insurance, Actuarial Science, Data and Models,
<i>Étude de la démographie française du XIXe siècle à partir de données collaboratives de généalogie</i> (Poster)
Paris, France, 11–12 June.

Seminar of the «History and Population» (UR11) unit of the The French Institute for Demographic Studies,
<i>Étude de la démographie française du XIXe siècle à partir de données collaboratives de généalogie</i>
Paris, France, 12 April.

Conference , Environmental Economics : a focus on Natural Resources,
<i>Weather Shocks, Climate Change and Business Cycles</i>
Orléans, France, 5–6 April.

Thematic School , TEPP-CNRS Evaluation of Public Policy,
<i>Étude de la démographie française du XIXe siècle à partir de données collaboratives de généalogie</i> , (Poster).
Aussois, France, 19–23 March. |
| 2017 | Conférence , X international, interdisciplinary conference on spatial statistics, geographical epidemiology and geographical aspects of public health (GEOMED 2017), <i>Spatial Aspects of Collaborative Demography via Genealogical Data</i>
Porto, Portugal, 7–9 septembre. |

2016	<p>Seminaire of the GAINS, <i>Climate Shocks and Business Cycles.</i> Le Mans, France, 6 September.</p> <p>Workshop, 3rd International MACroeconomics workshop (IMAC), <i>Climate Shocks and Business Cycles</i> Rennes, France, 1-2 December.</p> <p>Conference, 33rd International Symposium on Money, Banking and Finance, <i>Climate Shocks and Business Cycles</i> Clermont-Ferrand, France, 7–8 July.</p> <p>Conference, 65th Annual Meeting of the French Economic Association, <i>Climate Shocks and Business Cycles</i> Nancy, France, 27–29 June.</p> <p>Conference, Conference on Sustainable Resource Use and Economic Dynamics (SURED 2016), <i>Climate Shocks and Business Cycles</i> Banyuls-sur-Mer, France, 6–9 June.</p> <p>Workshop, 4^e Workshop Microéconomie Appliquée, <i>Climate Shocks and Business Cycles</i> Rennes, France, 20 May.</p> <p>Doctoral Workshop, <i>Climate Shocks and Business Cycles</i> Rennes, France, 28 avril.</p> <p>Workshop, 5th French Association of Environmental and Ressource Economists (FAERE) Thematic Workshop, <i>Effects of Climate Change on Agriculture: a European case study</i> Rennes, France, 24–25 March.</p> <p>Thematic School, TEPP-CNRS Evaluation of Public Policy, <i>Climate Shocks and Business Cycles</i> (Poster) Aussois, France, 14–18 March.</p> <p>Internal Doctoral Seminar, <i>Climate Shocks and Business Cycles</i> Rennes, France, 10–11 March.</p>
2015	<p>Conference, 64th Annual Meeting of the French Economic Association, <i>Effects of Climate Change on Agricultural Profits: a French Case Study</i> Rennes, France, 22–24 June.</p> <p>Internal Doctoral Seminar, <i>Climate Change in India: How to Protect Farmers?</i> Rennes, France, 19–20 February.</p> <p>Conference, Société Française d'Economie Rurale, <i>Climate Change in India: How to Protect Farmers?</i> (Poster), Rennes, France, 12–13 February.</p>
2014	<p>Conference, Environment and Natural Resources Management in Developing and Transition Economies, <i>Economic Impact of Climate Variability in India: a Ricardian Analysis</i> Clermont-Ferrand, France, 08–10 October.</p> <p>Internal Doctoral Seminar, Discussion of an article. Rennes, France, 13–14 February.</p> <p>Seminar, 30min' INSIDE, <i>Economics and Climate Change: Should Indian Farmers Rejoice for Climate Change?</i> Seminar aimed at undergrad students Rennes, 03 December.</p>

- 2013 | **Workshop**, Analyse de données spatio-temporelles en océano-météo, *Climate Change and Agriculture: Impacts on Wheat and Corn Yields in France* Landéda, France, 28–29 November.
- Conference**, R meeting, *Kernel Density Estimation Based on Ripley's Correction*(Poster and lightning talk, winner of the poster contest), Lyon, France, 27–28 June 2013.
- 2012 | **Seminar**, Séminaire Quantact, Presentation of work completed during a research internship. Montreal, 16 July.

TEACHING ACTIVITIES

Computer science

- **IT**, 22 hours of tutorials (2021,2022), 3rd year of Bachelor in Economics, Aix-Marseille University
Book of the course: <http://egallic.fr/Enseignement/R/Book/avant-propos.html>
Hands-on sessions: http://egallic.fr/Enseignement/L3_EcoFi/TD/
- **Programmation pour les big data : SQL, NoSQL, Python**, 24 hours of lectures/tutorials (2018, 2019, 2020), 2nd year of Magistère, Aix-Marseille Université / Aix-Marseille School of Economics.
Book of the course:: <http://egallic.fr/Enseignement/Python/propos-liminaires.html>.
Introduction to Python, Relational databases, SQL, nonrelational databases, MongoDB
- **Programming for big data: SQL, NoSQL**, 12 hours of lectures/tutorials (2018, 2019, 2020), Master 2nd year, track Econometrics, Big Data and Statistics, Aix-Marseille Université / Aix-Marseille School of Economics.
Introduction to Python, Relational databases, SQL, nonrelational databases, MongoDB
Introduction to R
- **Introduction to R**, 20 hours of lectures/tutorial (2014, 2015, 2016)
Graduate (1st year), University of Rennes 1.
Lesson notes (in French) : http://egallic.fr/Enseignement/R/m1_stat_eco_logiciel_R.pdf.
Data manipulation, user-defined functions, graphics, statistical methods, ...
- **Introduction to Web APIs**, 1 day practical work for R. SUIRE (2014)
Graduate (2nd year), University of Rennes 1.
Basic operation, practical case with Twitter APIs.

Statistics, Econometrics

- **Machine learning and statistical learning**, 24 hours (2018, 2019, 2020, 2021, 2022), Master 2nd year, track Econometrics, Big Data and Statistics, Aix-Marseille Université.
Slides: <http://egallic.fr/cours-de-machine-learning/>
machine learning/statistical learning methods, supervised learning (regression learning, classification methods), unsupervised learning, ethics
- **Statistique**, 24 hours of lectures (2018, 2019, 2020, 2021, 2022), 2nd year of Bachelor in Economics, Aix-Marseille Université.
Probability distributions, sampling theory, hypothesis testing.
- **Statistics**, 18 hours tutorials, for T. KARCHER (2012, 2013, 2014, 2015, 2016)
Undergraduate (2nd year), University of Rennes 1.
Introduction to probability, random variables, theoretical distributions, approximations of probability distribution functions, sampling distributions, confidence intervals, ...
- **Econometrics** 12 hours tutorials, for T. KARCHER, (2013, 2014, 2016)
Undergraduate (3rd year), University of Rennes 1.
OLS, hypothesis testing, multicollinearity, heteroskedasticity, autocorrelation in residuals, variable choice, dummy variables, ...

Economics

- **Group projects**, 12 hours tutorials (2022), 3rd year of Bachelor in Economics, Aix-Marseille Université.
- **Monetary Economics and Finance**, 12 hours tutorials for J.C. POUTINEAU (2015, 2016)
Undergraduate (2nd year), University of Rennes 1.
Credit multiplier, AS-AD and IS-LM models, Taylor rule, monetary policy, macroeconomic equilibrium, expectations, ...
- **Introduction to Macroeconomics** (in English), 12 hours tutorials for C. BENJAMIN (2016)
Undergraduate (1st year), University of Rennes 1.
Fundamental principles of macroeconomics, System of National Accounts, ...
- **Microeconomics**, 16 hours tutorials for O. L'HARIDON (2016)
Undergraduate (1st year), University of Rennes 1.
Fundamental principles of microeconomics, buyers, sellers and equilibrium, consumer's behaviour, behaviour of firms, market and competition, ...
- **Methodology**, 10 hours tutorials, for C. GUÉGUEN (2013)
Undergraduate (1st year), University of Rennes 1.
Document research, problematization, ...

Supervision of students

- **End of study project** (2018, 2019, 2020, 2021, 2022).
Supervision of groups of 2 to 5 students working for 6 months on a project in data science submitted by a company (ST Microelectronic, Janssen, Progexia, Airbus Helicopters).
- Supervision of students in the Master 2 Economics course in Econometrics, Big Data, Statistics, Aix-Marseille University.

PARTICIPATION IN COLLECTIVE TASKS

Research

- Co-organization of the general seminar of the research unit (AMSE), with A. SEROR (2020–2023)
- Co-organization of the “Big Data and Econometrics” seminar of the research unit (AMSE), with P. MICHEL (2018–2020)
- Participation in Selection Committees: Université Paris 1/IEDES/UMR Développement et Sociétés (2021), Université de Lorraine/BETA (2020)
- Refereeing duties: *Journal of Environmental Economics and Management, Journal of Public Economic Theory, BMC Health Services Research, Economics Bulletin.*

Teaching

- Pedagogical responsibility for the Economics-Finance course in the 3rd year of the Bachelor's degree in Economics and Management, Aix-Marseille University (2020–)

LANGUAGES

ENGLISH: Fluent
FRENCH: Mother tongue

COMPUTER SKILLS

Programming Languages: R (expert), Python (advanced), MATLAB, SAS, java.
Markup Languages: L^AT_EX, R Markdown, HTML, CSS.
Databases: SQL (advanced).
Office Software: Ms Office (Word, Excel, PowerPoint, Access), LibreOffice.

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