Elodie LETORT

Researcher

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Research topics

- Agricultural production microeconomics
- Applied microeconometrics
- Environmental regulations analysis

Education

PhD in Economics, 2009, University of Rennes I, with Honours

Title: micro-econometric modeling of farmers' production choices.

Advisor: Alain Carpentier, Research Director at INRAE

Master's degree in Economics, 2005, University of Rennes I, with Honours

Professionnal experience

Researcher, INRAE UMR SMART, Rennes, since 2014.

Visiting Scholar, University of Hawaii, Honolulu, July – September 2016.

Economist, ARAP (consultancy for farmers' association), Rennes, 2012 – 2014.

Economist, INRAE UMR SMART, Rennes, 2006 – 2011.

Others activities

Expertise activities

- "Storing 4 per 1000 carbon in soils : the potential in France", French Ministry of Agriculture, Food and Forestry, ADEME, INRA, 2018-2019.
- "Role, impacts and services provided by European livestock production", French Ministry of Agriculture, Food and Forestry, ADEME, INRA, 2016.

Research contracts

- French Priority Research Program *Growing and protecting crops differently*. FAST "Facilitate public Action to exit from PeSTicides", member of the French team and the project board and work package leader (2021-2026).
- French Project TETRAE *Transition to territories of agriculture, food and the environment*. PRESENCE "Improve Services of bovine livestock in territories" (2023-2027).
- EU H2020 project MINDSTEP " Modelling INdividual Decisions to Support The European Policies related to agriculture ", member of the French team (2019-2023).
- EU H2020 project CONSOLE « CONtract SOLutions for Effective and lasting delivery of agri-environmental-climate public goods by EU agriculture and forestry», member of the French team (2019-2022).
- EU H2020 project LIFT «Low-Input Farming and Territories - Integrating knowledge for improving ecosystem-based farming Low-Input Farming and Territories », member of the French team (2018-2022).
- LIENOSOL "Impacts of policies on farmland market in Brittany", ARAP, 2015.
- "Analysis of production costs of French farms", French Ministry of Agriculture, Food and Forestry, 2011.

Coordination activities

- Scientific coordinator of the research team "Production and Markets in Agriculture" (UMR SMART).
- Co-leader of the Work Package 1 of the FAST project.

Lecturer in Economics, Econometrics and Statistics, University of Rennes I, 2009-2013

Publications

Publications in peer review journals

- **Letort**, E., Dupraz, P. (2024). Animal feed as a lever to reduce methane emissions: a micro-econometric approach applied to French dairy farms, forthcoming in *Environmental Modeling and Assessment*.

- **Letort**, E., Femenia, F. (2024). Identifying heterogeneous flexibility of dairy farms using a panel smooth transition regression approach. *European Review of Agricultural Economics 51*(1), 185-213.

- Bamière, L., Bellassen, V., Angers, D., Cardinael, R., Ceschia, E., Chenu, C., **Letort**, E., ... & Pellerin, S. (2023). A marginal abatement cost curve for climate change mitigation by additional carbon storage in French agricultural land. *Journal of Cleaner Production*, *383*, 135423.

- Bareille, F., **Letort**, E. (2018). How do farmers manage their crop biodiversity through time? A dynamic acreage allocation model with productive feedback. *European Review of Agricultural Economics 45*(4), 617-639 (award of the best ERAE paper of the year 2018).

- Gaigné, C., **Letort**, E. (2017). Co-localisation des différentes productions animales en Europe: l'exception française? *Productions animales*, *30*(3), 219-228.

- Femenia, F., **Letort**, E. (2016). How to achieve significant reduction in pesticide use? An empirical evaluation of the impacts of pesticide taxation associated with a change in cropping practice. *Ecological Economics, 125*(C), 27-37.

- Carpentier, A., **Letort**, E. (2014). Multicrop production models with multinomial logit acreage shares. *Environmental and Resource Economics, 59* (4), 5537-559.

- **Letort**, E., Temesgen, C. (2014). Influence of environmental policies on farmland prices in the Bretagne region of France. *Review of Agricultural and Environmental Studies, 95* (01), 77-109.

- Carpentier, A., **Letort**, E. (2012). Accounting for heterogeneity in multicrop micro-econometric models: implications for variable input demand modeling. *American Journal of Agricultural Economics, 94* (1), 209–224.

Working Papers

- **Letort**, E., Le Gloux, F., Dupraz, P. (2023). How can labeling for health concerns improve environmental public good provisioning? *Working Paper SMART – LERECO* n°23-01.

- **Letort**, E., Ridier, A. (2022). The economic performance of transitional and non-transitional organic dairy farms: A panel data econometric approach in Brittany. *Working Paper SMART - LERECO* n°22-03.

- **Letort**, E., Dupraz, P., Piet, L. (2017). The impact of environmental regulations on the farmland market and farm structures: An agent-based model applied to the Brittany region of France. *Working Paper SMART – LERECO* n°17-01.

- **Letort**, E., Pech, M. (2014). Rôle des institutions et des régulations foncières sur le marché foncier agricole : illustration dans la région Bretagne. *Working Paper SMART - LERECO,* n°14-06.

- Carpentier, A., **Letort**, E. (2010). Simple econometric models for short-term production choices in cropping systems. *Working Paper SMART - LERECO,* n°10-11.

Expertise reports

- Pellerin, S., Laure, B., Camille, L., Raphaël, M., Schiavo, M., Angers, D., **Letort**, E. ... (2020). Stocker du carbone dans les sols français, quel potentiel au regard de l'objectif 4 pour 1000 et à quel coût ? 4 for 1000 study report.

Other publications

- Mathy S., Labussière O., Lavorel S., Lebel T., Schmitt B., le collectif « Autour du 2 °C 2019 » (2021). Les enjeux de l'interdisciplinarité de la recherche et des parcours de formation sur le changement climatique : l'école d'été « Autour du 2 °C ». *Nat. Sci. Soc.*, https://doi.org/10.1051/nss/2021017

- **Letort**, E. (2018). Comment l'analyse micro-économique de la production agricole contribue à l'évolution et à l'adaptation des systèmes de production? *INRA Sciences Sociales*, *2018*(910-2018-4215), 1-2.