

Tom LETROU

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PhD student in Applied Economics | AgroParisTech Engineer | MSc in Environmental, Energy and Transport Economics

EXPERIENCE

Jan 2026 - Present

PhD student

INRAE/Paris-Saclay Applied Economics Paris

Partial-equilibrium modeling of European livestock farming toward a safe and just operating space

- My PhD research examines how European livestock farming can transition toward a safe and just operating space while accounting for economic, environmental, social, and health-related constraints. I assess which combinations of agri-environmental policies, dietary changes, and structural adjustments in production could reduce livestock-related pressures while preserving key economic and social functions of agriculture.
- A central part of my work develops a multidimensional safe operating space framework for EU livestock and agriculture, covering impacts such as GHG, nitrogen and phosphorus flows, land use, water stress, biodiversity pressures, pesticides, ammonia, and antimicrobial use. In parallel, I develop a European partial-equilibrium model of agricultural markets to simulate how production, consumption, trade, prices, and land use respond to policy and demand-side scenarios. The broader objective is to connect these two approaches in order to evaluate transition pathways that are both environmentally viable and economically coherent for European agriculture.

Sep 2024 - Dec 2025

Research Engineer / STEP-UP project

INRAE Paris

Contribution to two work packages within the STEP-UP European project on the sustainability of EU livestock systems

- Contributed to the definition of a safe and just operating space for the livestock sector by developing a tailored framework, selecting relevant indicators, and establishing associated thresholds in collaboration with European partners.
- Supported the improvement of an EU partial equilibrium model by expanding product coverage, distinguishing imports from exports, and integrating environmental, health, and nutritional indicators.

Feb 2023 - Aug 2023

Research Intern / Trade and Agriculture Directorate

OCDE/OECD Paris

Climate impact of agricultural market price support: global and regional effects a model-based analysis

- This study examined the potential global and regional impacts of removing agricultural policies based on market price support on greenhouse gas emissions. The analysis relied on a computable general equilibrium model, using the OECD's METRO-PEM framework. This framework combines the standard METRO general equilibrium model with the data and parameterisation of the specialised Policy Evaluation Model for agricultural markets.
- A statistical analysis was also conducted to estimate the proportion of market price support captured by the tariff data incorporated into the model.

EDUCATION

Sep 2019 - Sep 2023

AgroParisTech / Engineering Degree

Sep 2022 - Sep 2023

Université Paris-Saclay / Master's Degree in Environmental, Energy and Transport Economics

Sep 2017 - Jul 2019

Lycée Chateaubriand / Classe préparatoire

SKILLS

Python/R/GAMS | TOEIC C1 (990/990) | Git/Github/Gitlab