

Marin Pellan

PhD Candidate, CSTB & ETH Zürich

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Profiles	in pellanmarin LinkedIn	🐙 marpellan Github	
Summary	As a PhD student, I am engaged in researching the interaction between climate and sectoral policies within the building sector. I have a keen interest in prospective life-cycle assessment, input-output analysis, scenario analysis, and building stock modeling. My goal is to engage in projects that bridges the gap between scientific research and practical policy application, aiming to develop science-based policies that drive sustainable and impactful changes both in policy frameworks and industry standards.		
Education	ETH Zürich Civil & Environmental Engineering 2021 - 2024 PhD	INSA Lyon Environmental Engineering & Sustainability 2019 - 2020 Advanced Master	
	University College Dublin 2015 Academic Exchange	Grenoble School of Management Technology, Economics & Management 2014 - 2018 MSc	
	Champollion High School Mathematics, Economics, Geopolitics 2012 - 2014 Preparatory classes		
Experience	Scientific and Technical Center for Buildings (CSTB) PhD Candidate Feb 2021 - 2024 <i>"Downscaling the French low-carbon national strategy for the building activities" - a 3-year PhD project conducted with the CSTB and the Chair of Sustainable Construction at ETH Zürich, led by Prof. Guillaume Habert.</i> <i>The main objective of the research is to integrate life-cycle thinking into net-zero national policies and quantitatively assess exploratory scenarios by 2050. This involves applied modelling using life-cycle assessment, input-output analysis and scenario analysis combined with data-driven methods.</i>		
	Scientific and Technical Center for Buildings (CSTB) Environmental Engineer Sep 2020 - Feb 2021 <i>Collaborated on various projects centered around Life-Cycle Assessment (LCA) and Material-Flow Analysis (MFA), with a particular focus on building renovations. Key contributions include:</i> <ul style="list-style-type: none"><i>Integrating embodied impacts of retrofitting archetypes into the Menfis model.</i><i>Collecting data for an MFA model in the Ile-de-France region.</i><i>Researching the influence of carbon taxation on construction practices.</i>		
	Scientific and Technical Center for Buildings (CSTB) Research Assistant April 2020 - Sep 2020 <i>Collaborated with a PhD candidate on Consequential Life-Cycle Assessment, in particular:</i> <ul style="list-style-type: none"><i>Analyzing industrial and economics data to construct a stock-flow consistent model.</i><i>Participating in the case study on residential buildings retrofitting in the context of the pandemic economic subsidies.</i>		
	Schneider Electric Market Analyst Apprentice Sep 2018 - Sep 2019 <i>Conducted market studies for low-voltage products with product engineers and organized focus group in Madrid and Barcelona.</i>		
Publications	From limit values to carbon budgets: assessing comprehensive building stock decarbonisation strategies Building & Environment (in review) http://dx.doi.org/10.2139/ssrn.4676635 Pellan, M; Almeida, D; Louërat, M; Habert, G March 2024		
	Beyond sectoral carbon budgets for the building activities: a French case study Energy & Buildings (in review) http://dx.doi.org/10.2139/ssrn.4633977 Pellan, M; Almeida, D; Louërat, M; Habert, G Jan 2024		
	Decarbonisation roadmap for the building activity: LCA modelling of the renovation lever Journal of Physics: Conference Series https://iopscience.iop.org/article/10.1088/1742-6596/2600/15/152010 Pellan, M; Almeida, D; Dubois, F; Louërat, M; Habert, G Sep 2023		
	A holistic perspective on the French building and construction GHG footprint IOP Conference Series: Earth and Environmental Science https://iopscience.iop.org/article/10.1088/1755-1315/1078/1/012049/meta Pellan, M; Louërat, M; El Beze, J; Habert, G Sep 2022		
Languages	French Mother tongue ● ● ● ● ●	English Fluent ● ● ● ● ●	Spanish Professional proficiency ● ● ● ○ ○
Skills	Python ● ● ● ● ● SQL ● ● ● ○ ○	Brightway ● ● ○ ○ ○ LaTeX ● ● ● ○ ○	
Courses	Brightway Autumn School Départ de Sentier Oct 2023	Open Science Summer School EPFL July 2022	Prospective Environmental Assessment ETH Zürich May 2021
Teaching	Universite Grenoble Alpes 2021-2022 Introduction to the environmental impacts of the building activities (bachelor civil engineering students) Practical courses on 'Elodie' building LCA software (master civil engineering students)		
References	Prof. Guillaume Habert PhD director Dr. Mathilde Louërat PhD co-supervisor Dr. Denise Almeida PhD co-supervisor Marine Vesson Manager		
Interests	Outdoor sports Cycling , Trail running, Mountaineering Guitar player and music lover Cinema Open source and sustainability		