

# NICOLAS LIÉNART

Crossing Environmental and Computer Sciences for sustainability



## BIO

Name Nicolas LIÉNART

Mobility Driving license

## CONTACT

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## CERTIFICATES



Bilan Carbone License, 2022  
Association Bilan Carbone

Cambridge English  
Advanced

Certificate of Advanced English  
Professional level, CEFR C1

ETS TOEIC

Score 975/990  
Professional level, CEFR C1



French Certificat Voltaire  
Professionnal level

## WORK EXPERIENCE

Expected PhD defence: December 2026

2023



### PhD: bio-sourced products sustainability, INRAE, TBI, Toulouse

**From November 2023:** Assessing environmental footprint of agricultural and organic waste recycling to bio-based products and materials.

**Supervision:** Lorie Hamelin (TBI) & Thibaut Lecompte (IRDL)

Use of advanced Life Cycle Assessment (LCA) methods.

Python; Literature Search; Public Scientific Presentations; Project Management

**Research stay abroad:** Copernicus, Utrecht University, Netherlands

**Skills:** Academic Research · Sciences · Sustainability · LCA

2022



### Bioeconomy engineer, Solagro, Toulouse

**October 2022, 1 year:** Various project for recycling of agricultural and food waste; Renewable Energies (i.e., biomethane, wood, photovoltaics).

Prospective work and modeling of flows at various scales.

**Part of the data team:** database manipulations and cartography (GIS).

**Skills:** Data analysis · Agriculture science · GIS · Excel · Python · Life Cycle Assessment (LCA) · Project management

2022



### Urine recycling modeling, Solagro, TBI, INRAE, Toulouse

**March 2022, 6 months:** Modeling recycling of nitrogen and phosphorus from urban population urine. Collaboration with INSA Toulouse and TBI researchers.

Designed a novel method for estimating N/P in excreted urines and fertilizers use on a metropolitan area.

**Skills:** Interview · Bibliography · Technical presentations · DATA analysis · GIS and geomatics

2021



### App ecodesign, OCTO Technology, Paris

**6 months:** Technical review, R&D, Implementation of eco-design principles for digital services. Training of teams and capitalization of technical resources.

**Skills:** Software development · Bibliography · Technical presentations

## EDUCATION

2021



### Environmental sciences, master, Toulouse INP. Grade: 16.8/20

**1 year:** Environmental Sciences; Agriculture Sciences; Complex Systems.

Environmental accounting methods: Life Cycle Assessment; Carbon Footprint

Geographic information system (GIS); Semi-structured interviews

2018



### Computer science, master, ESIEE Paris. Grade: 16.0/20

**3 years:** Programming: C/C++ ; JavaScript; PHP; Python; Linux; Databases

Sciences: Signal processing; Linear Algebra; Statistics

Communication: Data Visualization; Infographics

2016



### DUT MMI, IUT New Caledonia. Grade: 16.8/20

**2 years:** Databases; Programming; Communication

**3 months** exchange semester at AUT, New-Zealand

## SKILLS

- ▶ **General skills :** Project Management; Interdisciplinarity; Public Speaking; Professional English
- ▶ **Soft-skills :** Sociable; Assertiveness; Rigorous; Autonomous; Curious

## INTERESTS

**Climate Fresk - since 2021 :** over 10 animations, 1 coordination.



SPORTS & OUTDOOR  
ACTIVITIES



SCIENCE &  
SKEPTICISM



GASTRONOMY &  
PLANT-BASED CUISINE



OPEN SOURCE &  
OPEN DATA



KNOWLEDGE  
MANAGEMENT



/in/nicolas-lienart/

Looking for a post-doc position on environmental sciences and computer sciences