

# CLAIRE LEPAULT

Paris School of Economics, 48 Boulevard Jourdan, Paris

✉ [claire.lepault@psemail.eu](mailto:claire.lepault@psemail.eu) 🌐 Website 📄 Github

Placement Director: Angelo Secchi  
Assistant Director: Roxana Ban

[angelo.secchi@univ-paris1.fr](mailto:angelo.secchi@univ-paris1.fr)  
[lucia-roxana.ban@psemail.eu](mailto:lucia-roxana.ban@psemail.eu)

+33(0) 1 80 52 18 22  
+33(0) 1 80 52 19 43

## RESEARCH FIELDS

Environmental Economics, Applied Econometrics, Health, Development Economics

## EDUCATION

### Paris School of Economics, ENPC, CIRED

2020 – Present

Thesis title: Health effects of water pollution and heat stress in India

Paris, France

Expected date of completion: July 2024

#### References

Hélène Ollivier

Professor at Paris School of Economics

48 Boulevard Jourdan, 75014 Paris, France

[helene.ollivier@psemail.eu](mailto:helene.ollivier@psemail.eu)

Philippe Quirion

Research Director at CIRED

45bis Av. de la Belle Gabrielle, 94130 Nogent, France

[philippe.quirion@cnrs.fr](mailto:philippe.quirion@cnrs.fr)

Liam Wren-Lewis

Professor at Paris School of Economics

48 Boulevard Jourdan, 75014 Paris, France

[liam.wren-lewis@psemail.eu](mailto:liam.wren-lewis@psemail.eu)

Edward Rubin

Professor at University of Oregon

1585 E 13th Ave, Eugene, OR 97403, USA

[edwardr@uoregon.edu](mailto:edwardr@uoregon.edu)

### University of Oregon

Spring 2023

Visiting student in the Economics Department, Host: Edward Rubin

Eugene, USA

### Paris School of Economics (PSE)

2019 – 2020

Master 2 Analysis and Policy in Economics

Paris, France

### Ecole Nationale des Ponts et Chaussées (ENPC)

2016 – 2020

Engineering cycle, Master in Economics

Champs sur Marne, France

### Lycee Blaise Pascal

2014 – 2016

Two years of intensive preparatory courses in Mathematics and Physics (MPSI-MP\*)

Orsay, France

## JOB MARKET PAPER ([Link](#) to the latest version)

### Is urban wastewater treatment effective in India? Evidence from water quality and infant mortality

*Abstract:* In developing countries, untreated sewage exposes people to alarming water pollution levels, yet there is limited knowledge about the effectiveness of wastewater treatment investments. I leverage the national inventory of sewage treatment plants in India and various granular datasets on river water quality measures, as well as geo-localized information on child births and deaths, to identify robust effects of wastewater treatment installations. To do so, I use estimators robust to staggered adoption within a difference-in-differences design and compare urban areas that started wastewater treatment from 2010 onwards and urban areas where such treatment was planned or under construction in 2020. I show that after starting wastewater treatment, levels of fecal coliforms decreased by 50%, and downstream mortality under the age of six months declined by 20%. A back-of-the-envelope calculation suggests that starting wastewater treatment earlier – from 2010 onwards – in urban areas later selected into treatment – after 2020 – would have prevented over 40,000 child deaths in downstream sub-basins.

## WORKING PAPER

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**A hidden health impact of heat: exacerbated anemia in India** with Philippe Quirion and Pierre Uginet

*Abstract:* Heat waves, exacerbated by global warming, have increasingly negative health effects, particularly in relatively poor and hot countries such as India. These impacts are partly direct, caused by hyperthermia, and partly due to reduced food availability. While numerous harmful health effects of hot temperatures have been established, little is known about the links between heat waves and anemia, a medical condition affecting one-quarter of people worldwide and 43% of India's population. Using health, nutritional and climate data, we analyze the relationship between heat stress and anemia in India over the past decade. We examine both dry heat waves (high temperatures) and humid heat waves (combination of high temperatures and humidity). We find preliminary evidence indicating that heat waves worsen anemia in children and women. Moreover, the mechanism responsible does not seem to be related to reduced food availability.

## WORK IN PROGRESS

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**Fertilizers, water quality and perinatal health in India** with Eléonore Rouault

## PUBLICATION

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**Lepault, C. and Lecocq, F. Mapping forward-looking mitigation studies at country level**, *Environmental Research Letters* (2021) [link](#)

## RELEVANT EXPERIENCE

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**Contributing Author of Chapter 4 of the 6<sup>th</sup> IPCC Assessment Report (AR6, WG III)** **2018-2020**  
[Link](#) to Chapter 4 : Mitigation and development pathways in the near- to mid-term

**Research Assistant at CIRED** **2018-2020**  
Work with Franck Lecocq, CLA of Chapter 4 of the IPCC AR6 (WG III) *Nogent-sur-Marne, France*  
Participation in the creation of the AR6 Scenarios Database [link](#)

**Research Assistant at the Energy Research Centre** **Spring 2019**  
Work with Harald Winkler, CLA of Chapter 4 of the IPCC AR6 (WG III) *Cape Town, South Africa*

## TEACHING EXPERIENCE

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**ATER (teaching fellow) at EMS University Paris I Panthéon-Sorbonne** **2023-2024**  
*Economics of Uncertainty and Information (L3 taught in French, Pr. F. Pratlong)* *Fall 2023*

**Teaching Assistant at SciencesPo Paris |PSIA** **Fall 2020, 2021, 2022**  
*Natural Resources Economics (M1, taught in English), Pr. L.-G. Giraudet*

**Teaching Assistant at University Paris I Panthéon-Sorbonne**  
*Introduction to Econometrics (L3, taught in French), Pr. C. Doz and T. Broer* **Spring 2022**  
*Statistics : Probabilities (L2, taught in French), Pr. D. Brochard and E. Defebvre* **Fall 2021**

## SKILLS

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**Computing:** R/Rstudio, Python, Jupyter, Stata

**Languages:** French (native), English (fluent), German (elementary)

## GRANTS & FELLOWSHIPS

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Mobility grant, PSE **2023**

Research grant, PSE-EUR **2022**  
*Two weeks field work in Bhilwara district (Rajasthan, India). August 2022.*

Doctoral fellowship, ENPC **2020 – 2023**

## PRESENTATIONS

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**2023** AERE summer conference (Portland, Maine), UO Micro applied seminar (Eugene, Oregon), IPWSD at Columbia University (New York), International Conference on Development Economics (Paris), PSE Workshop "Forest-Water-Energy" (Paris), Journées doctorales du développement (Orléans)

**2022** EAERE annual conference (Rimini), Nordic Conference in Development Economics (Helsinki), EENR international conference (Orléans), FAERE annual conference (Rouen), Journées LAGV (Marseille), TSE Workshop (Toulouse), CIRED PhD student seminar (Paris), PSE REM seminar (Paris)

**2021** PSE CFD seminar (Paris)

**2019** CIRED Bricol'R (Paris)

## PERSONAL INFORMATION

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Born 1996   /   She/Her/Hers   /   French citizen   /   Practicing yoga in my free time

*last update : October 2023*