

JULIA MINK

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CONTACT INFORMATION

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APPOINTMENTS

Assistant Professor at University of Bonn	September 2022 - Present
Postdoctoral Researcher at INRAE	November 2021 - June 2022

EDUCATION

Ph.D. in Economics, Sciences Po Supervisors: Olivier Allais and Etienne Wasmer including a visit at University of California, Berkeley (Fall 2019)	October 2021
Master in Economics and Public Policy, Sciences Po, <i>Summa Cum Laude</i>	August 2016
Bachelor of Arts, Sciences Po, <i>Cum Laude</i> including an exchange at University of Warwick (2012/2013)	August 2013

RESEARCH INTERESTS

Environmental Economics, Empirical Health and Labor Economics, Inequality

PUBLICATIONS

The long-run effects of war on health: Evidence from World War II in France with Olivier Allais and Guy Fagherazzi, *Social Science & Medicine*, 2021 - doi.org/10.1016/j.socscimed.2021.113812

Associations between early-life food deprivation during World War II and risk of hypertension and type 2 diabetes at adulthood with Marie-Christine Boutron-Ruault, Marie-Aline Charles, Olivier Allais and Guy Fagherazzi, *Scientific Reports*, 2020 - doi.org/10.1038/s41598-020-62576-w

Changes in food purchases at retirement in France with Olivier Allais and Pascal Leroy, *Food Policy*, 2020 - doi.org/10.1016/j.foodpol.2019.101806

WORKING PAPERS

Putting a price tag on air pollution: the social healthcare costs of air pollution in France

I estimate the causal effects of air pollution on healthcare costs in France by combining administrative data on healthcare reimbursements with reanalysis data on air pollution concentrations and weather conditions. I adopt an instrumental variable approach where I exploit daily postcode-level variation in nitrogen dioxide, ground-level ozone and particulate matter concentrations induced by variation in wind speed. I explore effect heterogeneity by patient and location characteristics and by medical speciality. This study presents evidence for substantial healthcare costs caused by exposure to pollution levels that are predominantly situated below current European legal limits. The effects are several orders of magnitude larger than those estimated in the previous literature, suggesting that the healthcare costs

of air pollution have been severely underestimated. I find significant heterogeneity of effects across location and patient characteristics, indicating that air pollution reduction policies have the potential to reduce health inequalities.

Broken homes and empty pantries: The impact of partnership dissolution on household economic resources

This study investigates the long-term impact of relationship breakdown on living standards in France. Using an event study approach, I examine changes in household income, food purchases, diet quality, and body weight of household members at the time of separation and up to nine years later, relative to a control group of households that did not separate. I find that income and food purchases decline suddenly upon separation and remain 20% to 25% lower than pre-separation levels until the end of the observation window. A decline in the body weight of the spouse during the first three years after the separation indicates a reduction in total calorie intake that is consistent with the decline in food purchases. Diet quality worsens as the share of unhealthy food purchases increases. While income falls more in high-income households, food purchases and body weight decline more sharply in low-income households. Households with children suffer particularly large effects.

WORK IN PROGRESS

Health outcomes of residential agricultural pesticide exposure: Causal modelling from observational data

with Olivier Allais, Philippe Caillou and Michèle Sébag

We assess the impact of residential pesticide diffusion on residents living close to agricultural lands, exposed to pesticides via spray drift and volatilising beyond the treated areas. This population is largely absent in studies to date. We exploit sensitive health data in combination with newly available data on pesticide pollution. For the sake of a clear focus, we rely on the body of knowledge relating the exposure to some molecules at precise stages of the pregnancy to the impaired development of specific cognitive and biological systems. Accordingly, the study will focus on the impact of pesticide exposure on newborns and children. We use quasi-experimental methods and new machine learning approaches for causal inference to face the main challenges of non-linearity of the effects, high dimensionality of the potential causes (cocktail effect), data incompleteness, and hidden confounding factors.

Air pollution and choice of place of residence

with Olivier Allais and Antoine Nebout

We investigate whether individual preferences such as attitudes towards risk, time and ambiguity are correlated with an individual's exposure to air pollution through her choice of residence and how this impacts health outcomes. For this, we add a module with questions concerning individual preferences for the new wave of data collection of the French cohort study CONSTANCES. This project is currently at the data collection stage.

Reactive or proactive? Capturing adaptation to climate change using machine learning and behavioral theories

with Fabien Forge

We study the determinants of climate change adaptation using both machine learning and economic theory. For farmers, crop choice is one of the most effective and cheapest way of mitigating the effects

of climate change. Yet it is unclear whether farmers adapt in reaction to past weather realisations or in anticipation of climate change. We attempt to answer this question by testing two theories: one in which farmers are only backward looking and a second in which they are also forward looking. Since these two behavioural models do not live in the same parameter space, we follow Fudenberg et al. (2020) and measure how ‘complete’ each theory is by comparing their predictive performance to a predictive upper bound defined using machine learning.

The long-term effects of air pollution on healthcare spending

with Marion Leroutier, Hélène Ollivier and Aurélien Saussay

Our aim is to provide improved estimates of the long-term overall health costs of air pollution. For this, we investigate the long-term relationship between air pollution and social healthcare costs in France, including an assessment of the long-term cumulative impact of the French energy sector’s transition from coal-dominated to nuclear power generation from the 1970s to the 1990s. Project in the planning stage.

Do Voters Punish or Reward Deforestation? Evidence from Municipal Elections in Brazil

with Ariane Salem

Project in the planning stage.

GRANTS

2021 - DataIA, Project HORAPEST, 2021-2024.

2019 - ANR, Project BeHealth, 2020-2023.

2019 - Sciences Po department of Economics mobility grant.

2017 - ANR, Project AlimaSSenS [ANR-14-CE20-0003-01].

2016 - Strategic Research Initiative NutriPerso from University Paris-Saclay.

2016 - INRA, Meta-programme DID’it.

SEMINARS, WORKSHOPS AND CONFERENCES

2022

Academic job market job talks:

Hertie School, Toulouse School of Economics, ESSEC Business School, Université du Québec à Montréal Business School, Université de Montréal, Bank of Spain, Dyson School of Applied Economics and Management at Cornell University, Exeter Business School, Durham Business School, University of Bonn, University of Oklahoma, Sao Paulo School of Economics, Institute for Fiscal Studies, New York University in Abu Dhabi

Other:

DataIA Conference, University of Saclay, FR

9th IZA Workshop: Environment, Health and Labor Markets

Applied Microeconomics Workshop, University of Bonn, DE

2021

Spring Meeting of Young Economists

EuHEA Seminar Series Fall 2021

European Winter Meetings of the Econometric Society

Sciences Po Doctoral Seminar

2020

Sciences Po Doctoral Seminar, Paris, FR
Workshop INNOV, Toulouse, FR

2019

UC Berkeley Development Lunch Seminar, Berkeley, US
UC Berkeley Environment, Resource and Energy Economics Seminar, Berkeley, US
Italian Congress of Econometrics and Empirical Economics, Lecce, IT
Sciences Po Doctoral seminar, Paris, FR

2018

Sciences Po Doctoral Seminar, Paris, FR
Health and Food Economics Workshop, Toulouse, FR
LIEPP doctoral seminar, Paris, FR

2017

INRAE Seminar, Ivry-sur-Seine, FR

REFEREEING ACTIVITIES

Food Policy, Journal of the European Economic Association, Journal of the Economics of Ageing

TEACHING AND WORK EXPERIENCE

Introduction to Econometrics - Lecturer *Fall 2022*
University of Bonn, Undergraduate course

Public Economics - Lecturer *Fall 2020, 2021*
Sciences Po School of Public Affairs, Graduate course

Trade and International Finance - Teaching assistant *Spring 2021*
Sciences Po, Undergraduate course, Professor Philippe Martin

Perspectives in Economics and Sociology - Teaching assistant
Sciences Po, Undergraduate course, Professors Roberto Galbiati and Mirna Safi

Principles of micro- and macroeconomics - Coordinator & Teaching Assistant *Fall 2020, 2019*
Coordination between tutors, professors, administration, teaching assistance, Sciences Po, Undergraduate course, Professors Yann Algan, Kerstin Holzheu and Jeanne Commault

The Economics of the Media: A Global Perspective - Teaching assistant *Fall 2018*
Sciences Po, Graduate course, Professor Julia Cagé

Principles of micro- and macroeconomics - Graduate Student Instructor *Fall 2018, 2017*
Sciences Po, Undergraduate course, Professors Yann Algan and Guillaume Plantin

LANGUAGES AND PROGRAMMING SKILLS

German (native), English (fluent), French (fluent), Portuguese (work proficiency), Chinese (beginner)
Stata, R, Python, SAS