

JULIA MINK

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CONTACT INFORMATION

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EDUCATION

Sciences Po and INRAE - PhD Candidate in Economics Advisors: Olivier Allais and Etienne Wasmer	Apr. 2017 - present
University of California, Berkeley - Visiting graduate student	Sep. 2019 - Dec. 2019
Sciences Po - Master Economics and Public Policy, <i>Summa Cum Laude</i>	December 2016
Sciences Po, French-German campus - Bachelor of Arts, <i>Cum Laude</i>	December 2013

RESEARCH INTERESTS

Health, and environmental economics, human capital formation, spatial economics.

PUBLICATIONS

The long-run effects of war on health: Evidence from World War II in France, *Social Science & Medicine*, 2021
<https://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, *Scientific Reports*, 2020
<https://doi.org/10.1038/s41598-020-62576-w>

Changes in food purchases at retirement in France, *Food Policy*, 2020
<https://doi.org/10.1016/j.foodpol.2019.101806>

Putting a price tag on air pollution: the short-term consequences air pollution on health care use and costs in France

Air pollution is the single largest environmental risk to the health of Europeans. The costs from treating health conditions linked to air pollution are potentially high, yet they are rarely quantified due to problems of endogeneity and lack of adequate data. I use variation in the intensity of air pollution induced by periods of strike in the public transport sector in France to estimate the causal short-term effects of air pollution on health care use and costs. I consider health care cost reimbursements from 2015 to 2019 for all types of health care consumption including physician encounters, pharmacy purchases, and hospital care for a representative sample of the French population. The daily frequency and the high spatial resolution of the data allow for an unprecedentedly fine-grained analysis.

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

This study investigates the impact of a couple's break-up on the economic resources of the household by studying changes in income and food purchases around the time of separation in a panel of French households. I estimate a household fixed effects model to account for unobserved time-invariant household characteristics while controlling for additional time-varying covariates. Household income and food purchases decrease suddenly and significantly at the time of separation and remain lower than pre-separation levels for several years after the break-up. The decrease in food purchases appears to translate into a slight decrease in the female partner's body mass index (BMI). The share of unhealthy food purchases increases shortly before, during and after separation, indicating that the composition of food purchases changes as well. The decline in food purchases and BMI mainly affects households in the lowest pre-separation income tercile, suggesting that these changes are due to insufficiency of financial resources.

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

with Olivier Allais, Philippe Caillou and Michèle Sébag

The goal of this study is to rigorously assess the adverse 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 will 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 short and medium-term pesticide impact 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. The innovative value of the study is twofold. In terms of application, we aim to assess the pesticide risk on health at birth and in childhood, a current major health and societal issue. In terms of methodology, we aim to build a general methodology applicable to the analysis of industrial risks, handling spatio-temporal data with their limitations, and rigorously establishing the nature and amounts of risks incurred – offering an alternative to waiting until lethal risk become undeniable.

Adaptation to climate change

with Fabien Forge

Our objective is to predict crop switching based on farmer's expectations of future weather realisations in the context of climate change-related shifts in weather patterns. We exploit district-level agricultural data on India to investigate how changes in the share of harvested area of each crop over time are related to changes in temperature and precipitation. Assuming that farmers choose their crop portfolio to maximise yields based on their expectation of next period's weather, we are interested in testing whether farmers form their beliefs about future weather considering past weather realisations, projections of future weather, or a mixture of both. For this, we compare models of backward- or forward-looking farmers in terms of how predictive they are of the observed changes in the share of the different crops planted. In order to assess the overall fit of these models, we compare how much of the variation any of these models predict relative to the maximum amount of explainable variation which we define as the variation explained when using more flexible machine learning methods.

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.

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

2021

Spring Meeting of Young Economists, Bologna, IT

Sciences Po Doctoral Seminar, Paris, FR

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 Friday lunch seminar, Paris, FR

2018

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

2017

INRA Seminar, Ivry-sur-Seine, FR

TEACHING AND WORK EXPERIENCE

Teaching assistant

Spring 2021

Trade and International Finance, Sciences Po
Professor: Philippe Martin
Perspectives in Economics and Sociology, Sciences Po
Professors: Roberto Galbiati and Mirna Safi

Lecturer

Fall 2020, Fall 2021

Public Economics, Sciences Po School of Public Affairs

Coordinator

Fall 2020, Fall 2019

Responsible for coordination between tutors, professors, administration; design of the exams and teaching material. Micro- and Macroeconomics for first year students ([CORE Economics](#)) at Sciences Po
Professors: Yann Algan, Kerstin Holzheu and Jeanne Commault

Graduate Student Instructor

Fall 2018

Undergraduate class in Micro- and Macroeconomics (CORE Economics) at Sciences Po, taught in French
Professors: Yann Algan and Guillaume Plantin

Teaching assistant

Fall 2018

The Economics of the Media: A Global Perspective at Sciences Po
Professor: Julia Cagé

Graduate Student Instructor

Fall 2017

Teaching of two classes of first year students in Micro- and Macroeconomics (CORE Economics) at Sciences Po, taught in English
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