

# Arthur Heim

POSTDOCTORAL RESEARCHER, FRENCH NATIONAL FAMILY ALLOWANCE FUND (CNAF)

Paris, France

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*I am an applied economist working on the design and evaluation of public policies to reduce inequalities and poverty in France. I combine field experiments and microeconometrics to study the effects of active labour market policies for single mothers and how administrative support and information can improve access to early childcare services. I also use market design and implement fair assignment mechanisms for daycare seats in French municipalities.*

## Appointments

### CURRENT POSITION

#### Research and evaluation officer

Paris (France)

NATIONAL FAMILY ALLOWANCE FUND (CNAF)

Mar 2023–Present

- I work in the research and statistics department of the institution in charge of all family, disability, housing and minimum income allowances in France. I use these administrative data for policy evaluations and research.  
I designed and ran a randomised control trial of a welfare-to-work programme for single mothers on long term welfare.  
I set-up a multi-site large scale market design experiment in a partnership with École polytechnique to assign daycare seats for local governments in France.

### PAST EXPERIENCES

#### Scientific advisor

Paris (France)

FRANCE STRATÉGIE

Mar 2019–Feb 2022

- I was a member of the evaluation committee of the national anti-poverty strategy and provided many literature reviews, notes and proposals.

#### PhD candidate and project manager

Paris (France)

NATIONAL FAMILY ALLOWANCE FUND (CNAF)

Mar 2019–Feb 2022

#### Project manager

Paris (France)

FRANCE STRATÉGIE

Mar 2016–Feb 2019

#### Project manager

Paris (France)

NATIONAL COUNCIL OF SCHOOL SYSTEM EVALUATION (CNESCO)

Feb 2014–Feb 2016

## Education

### PhD in Economics

Paris School of Economics - EHESS

ANALYSIS AND ECONOMIC POLICIES (APE)

2019-2024

- PhD thesis: *Social investment and the changing face of poverty: Essays on the design and evaluation of social and family policies in France*  
PhD advisor: Marc Gurgand  
Jury: Anne Boring, Rafael Lalive, Camille Terrier, Karen Macours

### Master in Economics

Paris School of Economics - EHESS

PUBLIC POLICIES AND DEVELOPPEMENT (PPD)

2012-2013

- Master thesis: *Public sector as a shelter ? The impact of graduating in a recession on selection into public employment.*  
Advisor: Eric Maurin

### Bachelor in Applied Economics

Dauphine University, Paris

INTERNATIONAL ECONOMICS AND DEVELOPMENT

2008-2011

### University diploma

Dauphine University, Paris

MANAGEMENT AND ECONOMICS

2008-2010

### High School diploma

Lycée La Haie Griselle

SCIENCE TRACK

2007

Social investment and the changing face of poverty

A GENERAL INTRODUCTION

Thesis chapter: 2024

- I introduce and motivate the general framework of my PhD by discussing structural changes in education, gender dynamics and politics. I discuss the main contributions of each chapter.

Rage against the matching

FAIRNESS AND INEQUALITIES IN A MARKETDESIGN EXPERIMENT OF DAYCARE ASSIGNMENTS IN FRANCE

Pre-print: 2024

With Julien Combe

- We use market design to define assignment mechanisms for the daycare market. We conduct a field experiment using them in France and analyse who gets what and why.

Welfare to what ?

EXPERIMENTAL EVALUATION OF AN ACTIVATION PROGRAMME FOR SINGLE MOTHERS IN POVERTY IN FRANCE

Pre-print: 2024

- I evaluate a randomised experiment of an intensive welfare-to-work programme targetting single parents on long-term welfare in France. I find no effect on labour market participation and poverty after the end of the programme.

Tax burden on the poor

SINGLE MOTHERS' OPTIMISATION BEHAVIOURS FOLLOWING AN EXPERIMENTAL ACTIVATION PROGRAMME IN FRANCE

Pre-print: 2024

With Alexandra Galitzine

- We challenge the idea that the French tax-benefit system "make work pay" for single parents and analyse reactions following a randomised intensive welfare-to-work programme. Using instrumental distribution regression, we find strong reactions at the intensive margin consistent with the incentives of the tax benefit system.

Programming skills

Language	Use	Skills
R	Daily	Data wrangling & visualisation ; econometrics, machine learning
Rmarkdown	Daily	Reproducible research, integration with $\LaTeX$ , presentations, websites
$\LaTeX$	Daily	Reports & presentations
MATLAB	Regularly	data formatting, functional programming
STATA	Rare	Data manipulation and econometrics
PYTHON	Beginner	Object oriented programming and data science

Teaching experiences

External lecturer

SCIENCES PO PARIS

Sciences po executive: Management of public policies

S2 2024—

- 4 hour lecture on anti-poverty policies in France

Teacher assistant: Evaluating public policies

SCIENCES PO PARIS

Master I: Public Affairs

S2 2018–S2 2023

- Teacher assistant of Professor Denis Fougère, 20h supplementary lectures on applied econometrics using R. Sample lectures: Introduction, RCT, and advanced RCT, Diff-in-diff,

Assistant professor (temporary)

DAUPHINE

Master II: Public policies and opinions

S2 2020–S2 2021

- 36h Course jointly organised with Clément Lacouette Fougère on public policy evaluations from an economic perspective (18h) while the other part of the class was based on qualitative evaluation

Guest lecturer: Macroeconomics

DAUPHINE

2nd year bachelor Economics and management

S2 2013–S2 2014

- 36h course on macroeconomics of open economies and monetary unions + history of the Eurozone.

# Working papers and ongoing projects

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## ONGOING RESEARCHES

### Mitigating the socioeconomic gap in early childcare enrolment

With *Laudine Carbuccia, Carlo Barone and Coralie Chevalier*

EVIDENCE FROM A MIXED-METHOD, MULTI-ARM RANDOMISED EXPERIMENT

Ongoing: 2024-2025

- We recruited 1850 pregnant mothers in 7 maternity wards around Paris and randomly assigned them to either receive information on childcare (T1), placebo informations on babies' well-being (C) or information and personalised administrative support for applications (T2). Information has no effect on average but administrative support increases application and access to daycare. However, the increased access to daycare only concerns the high-education group.

### The effect of active labour market policies on single mothers' subjective well-being

With *Saad Loutfi*

EXPERIMENTAL EVALUATION OF AN ACTIVATION PROGRAMME FOR SINGLE MOTHERS IN POVERTY IN FRANCE

Ongoing: 2024-2025

- We conducted three waves of survey across 4 cohorts of the Reliance randomised experiment. We analyse the effect of the programme on participants well-being at different moments after the end of the programme.

### The effect of accessing daycare on households' earnings

With *Julien Combe*

EVIDENCE FROM A MULTISITE MARKET DESIGN RANDOMISED EXPERIMENT IN FRANCE

Ongoing: 2026

- We used algorithm to assign daycare seats to 20 000 households and we match these data with that of the family allowance fund. We analyse the effect of accessing daycare on labour market participation, couple stability and subsequent inequalities.

## COLLECTIVE WORK ON REPRODUCIBLE RESEARCH

### Investigating the analytical robustness of the social and behavioural sciences

*Multi - 100 project*

Collective: 2024

- Conducted replication analysis of two social and behavioral science studies for the Multi 100 project, examining the impact of analyst choices on research outcomes. Replicated Behrman et al. (JPE 2015) on monetary incentives for students and teachers and Angrist and Lavy (AER 2009) on high-school exam achievement awards.

# Publications in French

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## BOOK

1. Heim, A., Steinmetz, C., & Tricot, A. (2015). *Faut-il encore redoubler ?* ({Conseil national d'évaluation du système scolaire (Cnesco)} & {Institut français de l' éducation}, Eds.). Réseau Canopé.

## OTHER PUBLICATIONS

1. Grobon, S., Heim, A., & Huillery, E. (2021). Vers un revenu de base pour les jeunes de 18-24 ans ? État de la recherche et proposition d'expérimentation. In *Comité d'évaluation de la stratégie nationale de prévention et de lutte contre la pauvreté* (France stratégie).
2. Heim, A. (2020). Les effets attendus des mesures sur les modes d'accueil de la petite enfance : Quelques éléments de littérature. In L. Schweitzer (Ed.), *Comité d'évaluation de la stratégie nationale de prévention de lutte contre la pauvreté: Note d'étape: Vols. Annexe 13*. France Stratégie.
3. Fougère, D., & Heim, A. (2019). *L'évaluation socioéconomique de l'investissement social* (Rapport No. 2019-06; p. 184). France Stratégie.
4. Fougère, D., & Heim, A. (2019). *L'investissement social à l'épreuve de l'évaluation socioéconomique* (p. 8) [Note de synthèse]. France Stratégie.
5. Heim, A. (2018). *Quand la scolarisation à 2 ans n'a pas les effets attendus: Des évaluations sur données françaises*. France Stratégie.
6. Heim, A. (2017). L'investissement social: Quelles significations ? Quelles implications ? *Cahier Français*, 399, 16–21.
7. Heim, A. (n.d.). *Comment estimer le rendement de l'investissement social ?* (Note d'analyse No. 2017-02). France stratégie.
8. Heim, A., & Galinié, A. (2016). *Inégalités scolaires : Quels rôles jouent les cours privés ?* [Contribution au rapport du Cnesco Les in'egalit'es scolaires d'origines sociales et ethnoculturelle.]. Cnesco.
9. Heim, A., & Ni, J. (2016). *L'éducation peut-elle favoriser la croissance ?* (Note d'analyse No. 48). France stratégie.

10.

Heim, A., & Steinmetz, C. (2015). Le redoublement en France et dans le monde: Une comparaison statistique et reglementaire. In *Lutter contre la difficulté scolaire: Le redoublement et ses alternatives* (Vol. 1). Conseil national d'évaluation du système scolaire (Cnesco).

11.

Heim, A., & Steinmetz, C. (2015). Quelles alternatives au redoublement ? In *Le redoublement en France et dans le monde* (Vol. 3). Conseil national d'évaluation du système scolaire (Cnesco).

12.

Heim, A., & Steinmetz, C. (2015). Synthèse. In *Le redoublement en France et dans le monde* (Vol. 1). Conseil national d'évaluation du système scolaire (Cnesco).

13.

Heim, A., & Steinmetz, C. (2015). De l'étude de ses impacts à la croyance en son utilité. In *Le redoublement en France et dans le monde* (Vol. 2). Conseil national d'évaluation du système scolaire (Cnesco).

Selected conferences

<b>Research Workshop   Early childcare, inequalities, and women’s professional careers</b> LIEPP & PRESAGE (SCIENCES Po) • <i>Rage against the matching</i>	Paris may 2024
<b>Research Workshop   Welfare-to-work policies in France</b> LIEPP (SCIENCES Po) • <i>Tax burden on the poor</i>	Paris may 2024
<b>J-PAL-IPP seminar</b> PARIS SCHOOL OF ECONOMICS • <i>Welfare-to-What?</i>	nov 2020
<b>Public economics seminar</b> PARIS I SORBONNE • <i>Welfare-to-What?</i>	Paris dec 2019
<b>OECD expert group: ‘What standards of evidence are needed for policy design, implementation and evaluation’</b> OECD • <i>Demand for international standards of evidence : thoughts from a French perspective</i> , présenté à la réunion du groupe d’expert de l’OCDE ‘What standards of evidence are needed for policy design, implementation and evaluation’	Paris oct 2018
<b>International conference: Using educational research and innovation to address inequality and achievement gaps in education</b> OECD & US INSTITUTE FOR EDUCATION SCIENCES (IES) • <i>Income support strategies to reduce inequalities : Insights from France</i> , International seminar on "Using educational research and innovation to address inequality and achievement gaps in education".	Washington DC dec 2017
<b>Evaluating public policies conference</b> ASSOCIATION FRANÇAISE DE SCIENCES ÉCONOMIQUE & DG TRÉSOR • <i>Quand la scolarisation à 2 ans n’apporte pas les effets attendus : Analyse quasi-expérimentales à partir du panel 2007</i>	Paris dec 2017
<b>Seminar on education policies</b> LIEPP (SCIENCES Po) • <i>École à 2 ans : Une maternelle plus précoce et plus longue améliore-t-elle la réussite des élèves ?</i>	Paris jul 2017
<b>Social investment for the youth conference</b> FRANCE STRATÉGIE • <i>L’apport des évaluations des investissements sociaux dans la jeunesse</i>	Paris sep 2016

Languages

French	English	German
Native	Proficient	Basic