



# CONSTANCE FROHLY

**Dual Research Master in Quantitative Economics**  
**Pre-doctoral fellow at Sciences Po and Paris School of Economics**

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## EDUCATION

**2019 - 2022 • Double Degree - SciencesPo Paris and Université Panthéon Sorbonne** **GPA 4.0**

**2021 - 2022: Year 2 SciencesPo Paris - Research Master in Economics**

Micro and Macroeconomics 3, Econometrics 3, Labour, Public, Trade and Topics in Economics

**2019 - 2020: Year 1 Panthéon-Sorbonne - Master in Models and Methods of Quantitative Economics**

Micro and Macroeconomics 1 & 2, Econometrics 1 & 2, Optimisation (finite dimensional spaces & dynamic), Probability and Statistics, Logic and Sets, Advanced topics in Development Economics

**2016 - 2019 • University of Warwick, UK** **First**

BASc with Honours in Economics and Global Sustainable Development (**First Class**)

Semester abroad at Monash University, Australia (**High Distinction**)

## RESEARCH EXPERIENCE

**2022 - 2023 Paris School of Economics & SciencesPo • Pre-doctoral research assistant**

**July - June**

**SciencesPo • Part-time pre-doctoral fellow, [Pierre Cahuc](#)**

- Investigating the opening of private middle school in France and its effect on social segregation in nearby public schools. We thereby estimate the impact of school choice on social diversity
- This project is the continuation of my master's thesis with Pierre Cahuc (grade 18/20)

**Paris School of Economics & SciencesPo • Part-time pre-doctoral fellow**

- Joint project between [Nicolas Jacquemet](#) at PSE, [Roberto Galbiati](#) and [Emeric Henry](#) at SciencesPo on the impact of moral messages on pro-social behaviour (donations, truth-telling...)
- We answer the question with a meta-analysis (of almost 100 articles), a model following Bénabou and Tirole (2006) and an experiment to test the magnitude of self- and social image mechanisms

**Jan-May 22 Sciences Po • Research Assistant, [Roberto Galbiati](#)**

- Data collection of stock market prices in the 19th century and simple validity checks

**Jun-Aug 20 University of Namur • Research Assistant, [Catherine Guirkinger](#)**

- Research assistant for Catherine Guirkinger and Paola Villar on the ERC grant "African Women"
- Analysed historical data on Stata to evaluate the long-run impact of colonialist policies in the 1920's on fertility behaviours and women empowerment in the Democratic Republic of Congo

## TEACHING EXPERIENCE

**2022 INSEAD MBA & Master's • Applied Microeconomics • [Vladimir Mares](#)**

**Spring & Fall**

- 1-2 groups x 1.5 hour-seminars per week: firms' cost curves, optimisation in perfect competition and in monopoly, deadweight welfare loss, price customisation, Cournot, Bertrand and Stackelberg competition, game theory.

**August 2022 Sciences Po Paris • Math Camp • Master's in Economics and Public Policy**

- 4 hours lectures and seminars per day: differential and (Riemann) integral calculus with multiple variables, matrices, determinants and eigenvalues, application to linear least squares, sequences and series, limits, set theory, random variables, Normal Distribution, Bernoulli, Binomial, Poisson
- Created the slides and the exercises for the math camp based on the previous year's handout

**Fall 2021 & 22 Sciences Po Paris • Economics 101 • [Philippe Martin](#)**

- 2-3 groups x 2 hour-seminars per week: utility maximisation (substitution and income effects), game theory (prisoner's dilemma), financial markets (intertemporal consumption), labour markets (optimal minimum wage), budgetary and monetary policy and international trade (Ricardo)

**2021 Sciences Po Paris • Teaching Assistant, [Philippe Martin](#) & [Isabelle Méjean](#)**

**Sept - Dec**

- Assistant for Philippe Martin and Isabelle Méjean on the first-year Economics 101 course
- Prepared weekly lecture slides, collected data and graphs and created recap slides for students

## PROFESSIONAL EXPERIENCE

**2020 - 2021** Gap year

- Mar - Jul 21** **Aide à la Décision Economique (ADE S.A.) • Policy evaluation, Belgium**
- Evaluated the effectiveness of European aid in developing countries for the European Commission
  - Collected data, organised interviews, analysed inventories and contributed to the final reports
  - Measured the impact of the EU's contributions to the 'Collect More Spend Better' tax initiative
- Sept - Feb 21** **MLAdvisory • Consulting company in sustainable finance, France**
- Researched the impact of climate risks on the probability of default for systemic French banks
  - Implemented data quality controls at a major French banks as a junior consultant
  - Prepared bi-weekly briefs and presentations for the client
- Apr - Jun 20** **Thala • Consulting company advising executives, UK**
- Developed a cost-benefit analysis of the COVID-19 and of three potential lockdown strategies
  - Modeled and tested the impact of different assumptions and policies on individuals' wellbeing

## CONFERENCES

- April 2019** **British Conference of Undergraduate Research, UK**
- 30-minute talk where I presented the results of my undergraduate thesis
  - My undergraduate thesis proposed a modelisation of income inequality before and after work-time degrowth in the Netherlands using micro data and Stata. I also estimated what redistributive policy would be necessary to keep income inequality at pre-degrowth level.
- July 2018** **Interdisciplinary Conference of Undergraduate Research • Warwick University, UK**
- 20-minute talk where I presented the result of an extra-curricular research project
  - I coded an agent-based model (on NetLogo) that simulated geographical segregation when individuals have a preference for neighbours similar to them. The objective was to reproduce and develop the tipping point identified in Schelling T.C. (1969) "Models of segregation," AER, 59(2), 488-493.
- Nov 2017** **Undergraduate Research Experience on Campus • NTU, Singapore**
- Selected for a grant by the Institute for Advanced Teaching and Learning at Warwick University
  - 30-minute presentation at the NTU-Monash-Warwick Alliance Conference
  - Presented a research proposal that I submitted in a research course (grade 82%): an RCT to evaluate a public policy in South Africa against HIV/AIDS

## CERTIFICATES

- Sept. 2018** **Santa Fe Institute, US • One-week course on the modelisation of complex systems**
- Received a scholarship to attend a week-long seminar on Complexity and the Environment
  - Followed courses and research seminars on the dynamic modelling of complex eco-systems with PhD and master's students
- Fall 2018** **Dauphine University • MOOC Impact Evaluation of Public Policies**

## SKILLS

- **Softwares:** Stata\*\*\*, R\*\*\*, Zotero\*\*\*, Latex\*\*\*, Julia\*\*\*, Python\*\*, GIS\*\*, Qualtrics\*\*, SQL\*\*, EViews\*
  - **Languages:** English \*\*\*, French \*\*\*, German\*, Swedish\*, Spanish\*
- Proficiency:** \*\*\* High (over 10 projects), \*\* Medium (6-8 projects), \* Low (1-2 projects)

## REFERENCES:

**Pierre CAHUC:** [pierre.cahuc@sciencespo.fr](mailto:pierre.cahuc@sciencespo.fr)  
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