

Thomas Bourany

Graduate student in Economics and Mathematics

25 years old – French citizen

Department of Economics

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📄 <https://thomasbourany.github.io>

Research Interests

Macroeconomics, Macro-Finance, Fiscal and Monetary Policies
Heterogeneous Agents Models, Stochastic Control and Mean Field Games

Education

- 2025 (Expected) **The University of Chicago, Chicago, IL.**
PH.D. IN ECONOMICS
- 2019 **The University of Chicago, Chicago, IL.**
M.A. IN SOCIAL SCIENCES – ECONOMICS
○ 1st and 2nd year PhD courses: Theory of Income & Empirical Analysis (Core), Applied Macroeconomics.
- 2018 **UPMC – Sorbonne Université, Paris, France.**
M.Sc. – MATHEMATICS AND APPLICATIONS
○ Mathematics of modelling (2nd year) : *Optimal control, Mean Field Games & Numerics*
○ Course in probability and stochastic calculus (1st year) & "Big Data Certificate" (*machine learning*)
- 2016 **Sciences Po, École Polytechnique & Ensaie, Paris, France.**
M.A. IN ECONOMICS, ECONOMICS AND PUBLIC POLICY (Joint program in three institutions)
- 2013–2014 **Indian Institute of Technology, Madras, Chennai, India.**
EXCHANGE PROGRAM, Courses in M.Sc. Mathematics (Abstract mathematics) and Economics
- 2014 **Sciences Po. & UPMC–Sorbonne Université, Paris, France.**
DUAL BACHELOR IN SCIENCES AND SOCIAL SCIENCES
○ Bachelor in Social Sciences, "Diplôme du Collège universitaire" (Sciences Po)
○ Bachelor in Sciences, Mathematics (UPMC-Sorbonne)

Research Awards and Honors

- 2018 **The University of Chicago, MAPSS Merit Scholarship.**
- 2016 **Prize for the Best Master Thesis in Economics, SCIENCES PO.**
"Fiscal policy in a monetary union: Optimal policy and cross-country spillovers"
- 2015 **Prize for the Research Internship, ÉCOLE POLYTECHNIQUE.**
"Fiscal policy and imperfect tax compliance over the business cycle"

Research Experience

- Jan. – Jun. 2019 **The University of Chicago, Chicago, U.S.**
RESEARCH ASSISTANT (part-time) for Professor G. Kaplan
- Mar.–Aug. 2018 **Université Paris Diderot, LJLL: Applied Mathematics Laboratory, Paris, France.**
RESEARCH INTERN under the supervision of Y. Achdou (Five months internship)
Developing numerical methods for Mean Field Games with aggregate uncertainty (*Matlab*)
Article: *"Wealth distribution over the business cycle: A Mean Field Game with common noise"*
- Apr.–Aug. 2015 **Banque de France, DGEI - SEMSI: International Macro Division & Forecasting, Paris, France.**
RESEARCH ASSISTANT, research project led by F. Pappadà and Y. Zylberberg (Five months internship)
In charge of data collection and analysis (Stata/Excel) Construction of a new indicator for tax compliance.
Article: *"Fiscal Policy and imperfect tax compliance over the business cycle"*

Teaching

2019 **The University of Chicago, Teaching Assistant, Chicago, IL.**

- Economic Policy Analysis (Econ 23950) – Kanit (Ken) Kuevibulvanich (Spring 2019)

2015 – 2018 **Sciences Po, Teaching Assistant, Paris, France.**

TA for 2 courses in the Master in Economics/PhD track:

Leading two-hours weekly sessions for 25-30 students

- Graduate Macroeconomics & finance – Xavier Ragot (Fall 2016 & Fall 2017)
- Fiscal and monetary policy – Jean Barthelemy (Fall 2016)

TA for 4 courses in the Master of Public Affairs:

Tutoring sessions for 50-100 students

- Macroeconomics – Thomas Chaney (Fall 2016 & Spring 2018)
- Macroeconomics for public policy – Xavier Ragot & Philippe Andrade (Spring 2016)
- Public Economics – Mark Stabile (Fall 2015)
- Quantitative Analysis – Martial Foucault (Fall 2015)

Seminar and Conference Presentations

- Fiscal Affairs Department Seminar, *International Monetary Fund*, 2019
- Reading Group on Probabilistic Approaches to Mean Field Games, *Université Paris Diderot*, 2018
- Workshop on Macroeconomic Implications of Micro Heterogeneity, *OFCE – Sciences Po*, 2018
- PhD Internal Seminar, *Sciences Po*, 2017
- DGEI Internal Conference, *Banque de France*, 2015

Research Papers and Work in Progress

- *Credit cycles, Market liquidity and heterogeneous firms*, [In progress]
- *Wealth distribution over the business cycle: A Mean Field Game with common noise*, 2018
- *Fiscal policy in a monetary union: Optimal policy and cross-country spillovers*, 2016
- *Fiscal policy and imperfect tax compliance over the business cycle*, 2015

Computer Skills

- **Matlab, Dynare, Julia**, Advanced, (2 recent projects each)
- **Stata, Python, R**, Good level (2 courses and 1 project each)
- **LaTeX, Microsoft Office**

Languages

- **French:** Native
- **English:** Fluent (TOEFL IBT 106/120)
- **Hindi & Persian:** Beginner