Thomas Bourany

Graduated in Economics and Mathematics
Applicant for a Graduate Program (PhD) in Economics

25 years old – French
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Education

2018–2019 **MAPSS – Economics**, University of Chicago, *Chicago, IL, U.S.*.
- 1st and 2nd year PhD courses: Theory of Income I-II (F. Alvarez, N. Stokey), Public Finance (M. Golosov), Heterogeneity in Macro (T. Winberry/ R. Kekre), Advanced Macro Reading group (G. Kaplan)

2014–2018 **Master – Mathematics and Applications**, UPMC Sorbonne Université , *Paris, France*.
- 2nd year: Mathematics of modelling (LJLL): *Optimal control, Optimization, Game theory, PDE*
- 1st year: Courses in probability: *Stochastic processes, calculus and control, Monte-carlo methods*
- "Big Data certificate": *additional courses in statistics and programming (machine learning)*
Master thesis: *"Wealth distribution over the business cycle: A Mean Field Game with common noise"*

2014–2015 **Master in Economics**, Sciences Po, École Polytechnique & Ensae , *Paris, France*.
Joint program "Economics and Public Policy"
Awards:
- 1st year: "Prize for the Research Internship", École Polytechnique
- 2nd year: "Prize for the Best Master Thesis in Economics", Sciences Po
Master thesis: *"Fiscal policy in a monetary union: Optimal policy and cross-country spillovers"*

2013–2014 **Exchange program**, Indian Institute of Technology, Madras, *Chennai, India*.

2011–2014 **Dual Bachelor in Sciences and Social Sciences**, Sciences Po. *and* UPMC Sorbonne Université, *Paris, France*, (i) "Diplôme du Collège universitaire" in Social Sciences, (Sciences Po) and (ii) Bachelor in Mathematics (UPMC).

Teaching and Work Experience

Mar.–Aug. 2018 **Research Intern**, Université Paris Diderot, *Paris, France*.
Five months internship, LJLL: Applied mathematics Laboratory. Studying numerical methods for Mean Field Games under the supervision of Y. Achdou. Applications to heterogeneous agents econ. models

2015 – 2018 **Teaching Assistant**, Sciences Po, *Paris, France*.
TA for 2 courses in the Master in Economics:
- 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:
- Macroeconomics – Thomas Chaney (Fall 2016 & Spring 2018)
- Macroeconomics for public policy – Xavier Ragot & Philippe Andrade (Spring 2016)
- Public Economics – Mark Stabile / Quantitative Analysis – Martial Foucault (Fall 2015)

Apr.–Aug. 2015 **Research Assistant**, Banque de France, *Paris, France*.
Five months internship, Dgei - Semsi: International Economics Division and Forecasting.
In charge of the data collection and analysis (*Stata/Excel*) in a research project led by F. Pappadà and Y. Zylberberg: *"Fiscal Policy and Tax Compliance over the business cycle"*

Computer skills

Modelling | **Matlab, Python, Dynare**, Expert, *(2 recent projects each)*.
Data analysis | **Stata, R**, Advanced, *(2 courses and 1 project each)*.
Programming | **Julia, C++**, Good level, *(1 course each)*.
Others | **LaTeX, Microsoft Office**.

Languages
French: Native
English: Fluent (Toelf Ibt 106/120)
Hindi & Persian Beginner

Music and dance
Classical guitar: 13 years in regional conservatory
Swing dancing (Lindy Hop)

Travelling
Journey Tehran–Paris by hitchhiking, (Iran, Turkey, Eastern Europe), Central Asia, South-East Asia, India