

Thomas Bourany

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

24 years – French
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Education

- 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 (machine learning) and computing (algorithmics)*
- 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.
Courses in M. Sc. Mathematics (Abstract mathematics) and Economics
- 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 (Fall 2015)
○ 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"*
- 2010 – 2013 **Summer & Student jobs**, (1 month each), Paris Area, France.
Laboratory assistant, Assistant cook, Administrative employee, Guitar teacher

Computer skills

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

Languages

French: Mother Tongue
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