

Florent Mc Isaac | Economist

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Nationality: French **Date of birth:** 7/28/1989

Current position

- **French Development Agency (AFD)** **Paris**
Economist, Macroeconomic Modeling *2015–present*
Member of the macroeconomic modelling program GEMMES (GEneralized Monetary Macrodynamics Multisectoral for the Ecological Shift) in the research department of the AFD.
Head of projects in macroeconomic modelling:
Brazil: Partnership between AFD-IPEA (Research Institution in Applied Economics) on financing the energy shift.
Ivory Coast: Partnership between AFD-CAPEC (Research laboratory in Economics) on modelling the informal economy and on assessing the impacts of commodity prices volatility on public finance.
- **Energy and Prosperity Academic Committee** **Paris**
Associate researcher, (ENS ULM, X, ENSAE) *2016–present*
Research topics: macroeconomic modelling, energy shift, finance, economy and climate interactions, estimation and simulation of continuous-time stochastic processes, and system dynamics.

Education

- **PhD in Applied Mathematics at Université de Paris 1–Panthéon-Sorbonne** *2016*
Title: Energy and Money in New Frameworks for Macro-dynamics,
Ph.D. committee: G. Giraud (CNRS-Advisor), M. Grasselli (McMaster University), M. Lavoie (Ottawa University), S. Keen (Kingston University), I. Ekeland (Université de Paris Dauphine), A. Nguyen-Huu (Université de Montpellier), C. Chorro (Université de Paris Panthéon-Sorbonne)
- **MS in Modelisation and Mathematical Methods in Economics and Finance** *2012*
at Université de Paris 1, Panthéon-Sorbonne
- **BS in Applied Mathematics** *2010*
at Université de Paris 1, Panthéon-Sorbonne

Publications

- “The Effects of Oil Price Shocks in a New-Keynesian Framework with Capital Accumulation”
Energy Policy, Volume 86, November 2015, Pages 844–854
with Veronica Acurio, Gaël Giraud, and Ngoc Sang Pham
- “Coping with Collapse: A Stock-Flow Consistent Monetary Macrodynamics of Global Warming”
Ecological Economics, Volume 147, January 2018, Pages 383-398

with Gaël Giraud, and Emmanuel Bovari

“Debt and damages: What are the chances of staying under the +2C warming threshold?”

- ***International Economics***, Volume 155, October 2018, Pages 92-108

with Gaël Giraud, and Emmanuel Bovari

“Minskyan Classical Growth Cycles”

- ***Mathematics and Financial Economics***, Forthcoming, Winter 2018

with Daniel Bastidas and Adrien Fabre

Working papers.....

“A Phenomenological Model for Human Population Dynamics”

- ***Working Paper***, Available on demand

With Victor Court

“Carbon Pricing and Global Warming: A Stock-flow Consistent Macro-dynamic Approach”

- ***Working Paper***, Available here

with Gaël Giraud, and Emmanuel Bovari

“An Input-Output Analysis: What Would A Low-Carbon Economy For Brazil Mean?”

- ***Working Paper***, Available here

with Daniel Bastidas

“Testing Goodwin with a Stochastic Differential Approach—The United-States 1948-2015”

- ***Working Paper***, Available in the Ph.D. Thesis

“An Augmented Net Oil Price”

- ***Working Paper***, Available on demand

“Influence of Weather Variability on Orange Juice Prices”

- ***Working Paper***, Available in SSRN

with Marius Frunza, and Frank Laudicina

“La dette publique française justifie-t-elle l’austérité budgétaire ?”

- ***Working Paper***, Available in CES Working Paper

with Gaël Giraud, and Rossi Abi-Rafeh

Conference presentations.....

“An Input-Output Analysis: What Would A Low-Carbon Economy For Brazil Mean?”

- **26 June, 2018/Juiz de Fora, Brazil**, International Conference of Input-Output Association

“An Input-Output Analysis: What Would A Low-Carbon Economy For Brazil Mean?”

- **25 May, 2018/Paris, France**, 6th International Symposium on Environment & Energy Finance Issues (ISEFI-20)

“Coping with Collapse”

- **23 November, 2017/Amsterdam, Netherlands**, CEP Workshop hosted at the DNB

“An Input-Output Analysis: What Would A Low-Carbon Economy For Brazil Mean?”

- **11 October, 2017/Paris, France**, Workshop Green Finance—Energy and Prosperity Academic Committee

“Coping with Collapse”

- **20 January, 2017/Paris, France**, Energy and Prosperity Academic Committee

“Testing Goodwin with a Stochastic Differential Approach—The United-States 1948-2015”

- **25-26 November, 2016/Cernay, France**, Energy and Prosperity Academic Committee

“An Augmented Net Oil Price”

- **25-27 October, 2015/Pittsburg, USA**, International Association for Energy Economics

- “An Augmented Net Oil Price”
25-27 May, 2015/Antalya, Turkey, *International Association for Energy Economics*
- “Oil and Debts: Are they Substitutes?”
28-31 October, 2014/Rome, Italy, *European International Association for Energy Economics*
- “The effects of Oil Price Shocks in a New-Keynesian Framework with Capital Accumulation”
19-21 September, 2014/Beijing, China, *Asian International Association for Energy Economics*
- “The effects of Oil Price Shocks in a New-Keynesian Framework with Capital Accumulation”
27-29 June, 2013/Istanbul, Turkey, *International Conference on Applied Economics*
- “Oil and Debts: Are they Substitutes?”
6-8 June, 2013/Paris, France, *Financial Engineering and Banking Society*
- “Influence of Weather Variability on Orange Juice Prices”
1-3 September, 2012/Oviedo, Spain, *Computational and Financial Econometrics*

Teaching assistantships

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| ○ ENPC- PARITECH | 2015-8 |
| ○ <i>Macroeconomic modeling</i> , Professor: Gaël Giraud | |
| ○ Université Paris 13—Erasmus Mundus | 2016-8 |
| ○ <i>Macroeconomic modeling</i> , Professor: Gaël Giraud | |
| ○ UFR 27: Mathematics – Université de Paris Panthéon-Sorbonne | 2013-5 |
| ○ <i>Analysis S5 (Topology and Differential Calculus) for L3 MASS</i>
Professors: Denis Pennequin and Moncef Meddeb | |
| ○ UFR 27: Mathematics – Université de Paris Panthéon-Sorbonne | 2013-5 |
| ○ <i>Corporate Finance for M1 MAEF</i>
Professor: Duc Khuong Nguyen | |
| ○ UFR 02: Economics - Université de Paris Panthéon-Sorbonne | 2012-3 |
| ○ <i>Mathematics for L1 Economie</i>
Professor: Claude Bressand | |
| ○ UFR 02: Economics - Université de Paris Panthéon-Sorbonne | 2012-3 |
| ○ <i>Financial Markets for M1 Finance</i>
Lecturer: Benjamin Hamidi | |

Software skills

- **Programming and Mathematical Languages:** TeX, R, Matlab, C, C++, Java, PHP, JavaScript, HTML.
- **Industry Software Skills:** Word, Excel, Power-point.

Languages

- **English:** Excellent
- **French:** Native speaker