

Curriculum Vitæ

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 Updated: 02/15/2021

Education

2020, Sept. (Canonical) PhD in theology. “Composing a Common World - A Political Theology of the Anthropocene”. Advisor: Fr. Christoph Theobald, SJ. **Centre Sèvres** (Paris). *Summa cum laude*.

2004, September. Habilitation to supervise a PhD in Economics, University Louis Pasteur, Strasbourg. *Summa cum laude*.

1998, January. PhD in Applied Mathematics, Laboratoire d’Econométrie de **l’Ecole Polytechnique**/University Paris-1: “Strategic Market Games”. *Summa cum laude*.

1989-1992. Ecole Nationale de la Stat. et de l’Adm. Econ. (**ENSAE**).

1989- 1993. **Ecole Normale Supérieure** (ENS Ulm). (Rank: 5th)

Employment and professional appointments

2020 - Founder and director of the Georgetown Environmental Justice Program.

2015-2019 Chief Economist | French Development Agency (Agence Française de Développement). Executive director of the Department “Innovation, Research, Knowledge” (IRS).

Oversaw a team of 115 people (researchers, evaluators, trainers...) for AFD, a non-profit public bank devoted to funding and fostering development projects in over 100 countries in the global South; responsible for the link between AFD and the academia, the media and IDFC (International Development Finance Club).

2015- Senior researcher | **CNRS** (National Center for Scientific Research) in Economics. Affiliated to the Centre d’Économie de la Sorbonne, UMR 8174, Paris-1 university.

2011-2013 : Director of the Finance research Department at the Centre d’Economie de la Sorbonne (Paris 1 university).

1999-2015 Researcher | CNRS (National Center for Scientific Research) in Economics. Affiliated to the Bureau d’Economie Théorique et Appliquée (BETA) (Strasbourg, 1999-2002) and Centre d’Économie de la Sorbonne (CES), UMR 8174, Paris-1 university (2002-2015).

The BETA (Bureau d’Economie Théorique et Appliquée, Office for theoretical and applied economics) is the research lab in economics of the main university in Strasbourg. I have been sent there as a first assignment imposed by the CNRS (National Center for Scientific Research, where I have been recruited as a civil servant in 1999). After 2.5 years, I could choose my next posting, which was at the Sorbonne (CES).

1998-1999: Postdoctoral fellow | **CORE** (Center of Operations Research, Louvain-la-Neuve, UCL, Belgium) and Teaching Assistant | University Paris-2 in Economics (Paris).

Academic and other service experiences

March 2020-: Founder and President of the French think tank *L'Institut Rousseau*, <https://www.institut-rousseau.fr/>

2019- President of the Scientific Committee of AFD.

2018 - Invited ('extraordinary') professor | **Stellenbosch university** (South Africa), School of Public Leadership.

2017 - Associate Fellow | **Institute for Advanced Studies**, Nantes.

2016 - 2019: Invited professor of Economics | **Ecole Nationale des Ponts et Chaussées** (Paris).

I taught one course/year at the "Corps des Ponts", the elite corps of French engineers-civil servants of the Ecole Polytechnique who dedicate themselves to energy, planning and economics. Several French economists stem from this corps: Jean-Michel Grandmont, Jean-Michel Guesnerie, Edmond Malinvaud...

2017-: Scientific Committee of the "Campus de la transition écologique" (Forges, Paris). <https://campus-transition.org>

2016-2017: **Stern-Stiglitz High level panel on Carbon Pricing.**

This panel lead by Joe Stiglitz and Nick Stern has been launched in 2016 by the French government and the World Bank dedicated to the economic policy of carbon prices. I was the (unique) French economist taking part to the commission. Simulations of my paper Bovari et al. (2018) have been used in order to assess the "right" carbon price.

2015 - : Scientific Committee of the Nicolas Hulot Foundation. <https://www.fondation-nicolas-hulot.org>

2015-2020 Founder and director of the academic Chair | **Energy and Prosperity**,

Institut Louis Bachelier, Ecole Normale Supérieure, Ecole Polytechnique, ENSAE sponsored by AFD, ADEME, SNCF, Air Liquide, Schneider electric, Mirova (Natixis bank). <http://www.chair-energy-prosperity.org/>

2014: Steering Committee on the Energy Transition for the French Ministry for the Ecological transition.

2011-2015: Entrance selection committee of the **Ecole Normale Supérieure** in Economics.

2013 - 2015: President of the AFTER Association.

Development, for the French government, of a funding strategy for the thermic renovation programme of public buildings in France. Lemoniteur.fr, "Performance énergétique".

2013: Reform committee of the Entrance examination test at ENA (National Administration School, Paris-Strasbourg).

2012: Research grant from Veolia: Unconventional financing for infrastructure projects in France, 2012. (with A. Grandjean, Carbone 4).

Development of the business model of a “bank of water” in order to fund infrastructure rehabilitation for the multinational company Veolia.

2012 - 2016: Scientific coordinator of the Riskergy project (<http://riskergy.com>)

Development of a new model for sovereign risk assessment with a focus on energy resilience, which led to the creation of the “Beyond ratings” agency. <https://beyond-ratings.com>

2011: Research grant from Veolia: Impact evaluation of the water access in the slums of Nagpur (India).

2011: Founding member of Finance Watch think tank (Brussels).
<https://www.finance-watch.org>

2011: Research grant from Danone: Impact evaluation of a Danone development project with *pemulungs* (scavengers) in Tangerang (Indonesia) (with C. Renouard, ESSEC Business School).

2009-2013: Research grant from Total: Impact evaluation of Oil companies in the Niger Delta.

2008-2010: Associate Professor at ESCP Business School (Paris).

2005-2014: Associate researcher at **Paris School of Economics** (Paris).

2009-2012: Cofounding leader of the Parliamentarian club *Oikonomia* (with Grégoire de la Roncière and C. Renouard) at the French National Assembly.

1999- 2004: Scientific consultant in the R&D department of Fixed Income Analysis and Client Advisory Research at CPR (Compagnie Parisienne de Réescompte) and Calyon (Jean-Michel Lasry’s team).

Research on inflation indexed Bonds, Credit derivatives, Weather derivatives, Portfolio optimization (in particular, the impact of IFRS/IAS 39 norms), auctions for IPOs, Fixing methods for international financial markets.

1995-1997: National service volunteer in Chad: teacher in mathematics and physics in the Jesuit highschool St Charles-Lwanga (Sarh, Chad).

Founder of a Center for Street Children (Balimba center). 40 children, still running today.
<http://membres.lycos.fr/aaermc/asso.html>

Awards

Spring 2021 *Doctor honoris Causa* of the university of Namur (Belgium).

“Mooc of the Year” 2019 for the MOOC “Energy and Ecological Transition in the Globalized South”, AFD-Ecole Normale Supérieure.

Grand Prix « Humanisme et Société », Freemason section of the French National Assembly, Nov. 2016.

Prize Biella (for the best foreigner book), 2016, for *La Transizione ecologica*.

Prize “Make the Peace” of the University of Bergamo, 2016, for *La Transizione ecologica*.

Award for *Illusion financière* as “Best book in economics” given by French highschool scholars, 2013-2014. (Ministry of finance).

Nominated as the “best young French economist” (*Le Monde/ Le cercle des économistes*), 2009.

Journal articles

- [1] “Correlated Equilibria and Strategic Incompleteness in Competitive Strategic Market Games”, *Revue Economique*, Vol.50(3), p. 583-592 (May 1999).
- [2] “Notes on Strategic Market Games”, *Cahiers d’Economie politique*, vol. 37, p. 257-272 (Fall 2000).
- [3] “An Algebraic Index Theorem for Non-smooth Economies”, *Journal of Mathematical Economics*, vol. 36, Issue 4, p. 255-269 (December 2001).
- [4] “Consistent Collusion-proofness and Correlation in Exchange Economies” (with C. Rochon), *Journal of Mathematical Economics*, vol. 38, 441-463 (2002).
- [5] “Generic Efficiency and Collusion-proofness” (with C. Rochon), *Social Choice and Welfare*, Volume 20 (3) p. 405 - 428 (Jun 2003).
- [6] “Strategic Market Games with Incomplete Markets and Finite Horizon” (with S. Weyers), *Economic Theory*, vol. 23 (3), p. 467-493 (March 2003)
- [7] “Efficiency and Imperfect Competition in Economies with Incomplete Markets”, (with H. Stahn), *Journal of Mathematical Economics*, vol. 39, Issues 5-6, p. 559-583 (July 2003).
- [8] “Homothetic or Cobb-Douglas Behavior Through Aggregation” (with J. K.-H. Quah) *Berkeley Electronic Journal*, vol. 3: No. 1 (2003).
<http://www.bepress.com/bejte/contributions/vol3/iss1/art8>
- [9] “Strategic Market Games: an Introduction”, *Journal of Mathematical Economics*, vol. 39, Issues 5-6, p. 355-375 (July 2003).
- [10] “On Shapley-Shubik Equilibria with Financial Markets” (with H. Stahn), *Economic Theory*, (available on-line : DOI : 10-2007/500199-007-0245-4.) (2003)
- [11] “Nash Implementation with an Infinite-dimensional Trade Space” (with. G. Bernis) *Review of Economic Design*, 9.3/2005, p. 271-287 (2003)
- [12] “Shapley Value and Inefficiency of Competitive Markets”, *Economie et sociétés* 35, 8-9, p. 1599-1623 (2004).
- [13] “Nominal Uniqueness and Money Non-neutrality in the Limit-price Exchange Process” (with D. Tsomocos) *Economic Theory*, 45, 303-348 (2010).

- [14] “Measuring the Contribution of Companies to Local Development: the case of oil tankers in Nigeria”, (with C. Renouard) *Revue Française de Gestion*, 36, 208-209,101-115 (2010)
- [15] “Is the Veil of Ignorance transparent ?” (with C. Renouard) *Oeconomia*, 1, 2, 239-258 (2011).
- [16] “For an ‘Apocalyptic’ Theology of History - A Reading from *Adversus Haereses*, V, III”, *Recherches de Science Religieuse*, 2011/3 (Tome 99) (2011).
- [17] “Financial Crashes or Liquidity Trap: the Dilemma of Non-conventional Monetary Policies” (with A. Pottier), *Revue Economique* 64(3) 485-496 (2013).
- [18] “Financialized Capitalism and Ecological Shift: from the ‘Society of Owners’ to a ‘Society of Commons’ ” *Gregorianum*, Pontificia Universitas Gregoriana, 94/4, (2013).
- [19] “What capital intelligence for tomorrow? A reading of "Capital in the 21st Century" by Th. Piketty", *Revue Française de Socio-Économie* , (n° 13), p. 336 sq. (2014).
- [20] “The Church in the face of the drifts of capitalism” , *Revista de Fomento Social*, n.275 (69), 339-347, (2014).
- [21] “The Effects of Oil Price Shocks in a New-Keynesian Framework with Capital Accumulation” (with V. Acurio and Fl. McIsaac) *Journal of Energy Policy*, vol. 86, p. 844-854, (2015).
- [22] “Debt-Deflation versus Liquidity Trap: the Dilemma of Non-conventional Monetary Policy”, (with A. Pottier), *Economic Theory*, 62(1), pages 383-408 (2015).
- [23] “Energy Challenges and Sustainable Development: How to avoid a Collapse?”, *Revue d’Économie du Développement*, vol. 23, pp. 100-123 (2015).
- [24] “Crisis and Relief in the Niger Delta (2012-2013). Assessment of the Impact of a Flood on Relational Capabilities”, (with H. Lhuillier and C. Renouard), *Oxford Development Studies*, vol. 46(1), 113-131, (2017).
- [25] “Coping with the Collapse: A Stock-Flow Consistent Monetary Macrodynamics of Global Warming” (with E Bovari & F. McIsaac), *Ecological Economics*, Volume 147, p. 383-398, (2017).
- [26] “Global Trends in Metal Consumption and Supply: The Raw Material-Energy Nexus”,(with Vidal O., Rostom F., François C.) *Elements*, 13(5), pp. 319-324, (2017).
- [27] “Household debt: The missing link between inequality and secular stagnation?”, (with M. Grasselli), *Journal of Economic Behavior and Organization*, (2019).
- [28] “Financial impacts of climate change mitigation policies and their macroeconomic implications: a stock-flow consistent approach” (with E. Bovari & F. McIsaac) *Climate Policy*, 20(2), 179-198, (2019).
- [29] “Prey-Predator Long-Term Modelling of Copper Reserves, Production, Recycling, Price and Cost of Production” (with F. Rostom and O. Vidal), *Environmental Science and Technology*, 53, 19, 11323-11336, (2019).
- [30] “Economic impacts of a glacial period: a thought experiment to assess the disconnect between econometrics and climate sciences”, (with M.-N. Woillez, G. Giraud, and A. Godin), *Earth Syst. Dynam.*, 11, 1073-1087, (2020).
- [31] “You won’t go any further, really? An economic analysis of a recent decision by the German Federal Court”, forthcoming in *European Law Journal*, (2021).

Books

1) *La Théorie des Jeux* (Game Theory), Garnier-Flammarion, 357 pages, collection Champs-U, 1st edition: September 2000. 2d edition: September 2004. 3rd edition (revised and augmented): Oct. 2009. English transl. of an updated version in preparation.

2) *Vingt Propositions pour réformer le capitalisme*, (co-directed with C. Renouard) Flammarion, 387 pages, 1st ed. March 2009, 2d ed. May 2009, 3rd ed. (revised and augmented): Feb. 2012.

Nominated as the “best young French economist” (*Le Monde/ Le cercle des économistes*), 2009, for this book.

3) *Le Facteur 12*, with. C. Renouard, 260 pages, Carnets nord, 246 p., March 2012. 2d ed. 2017.

4) *Illusion financière* [Financial illusion - from subprimes to the ecological shift], Les Editions de l'Atelier, 176 p., Oct. 2012. 2nd ed. January 2013. 3rd ed. 2014. Span. transl. *La Ilusión financiera*, Sal Terræ (2014). Ital. trans. *La Transizione ecologica*, EMI ed. (2015). Brazilian transl. *Illusao financeira*, 2016 ed. jesuit.

Award for *Illusion financière* as “Best book in economics” given by French high-school scholars, 2013-2014. (Ministry of finance). Grand Prix « Humanisme et Société », Freemason section of the National Assembly, Nov. 2016. Prize Biella (for the best foreigner book), 2016. Prize “Make the Peace” of the University of Bergamo, 2016.

5) *Composer un monde en commun - une théologie politique de l'Anthropocène*, Seuil, Paris, forthcoming Fall 2021 (first volume of my PhD in theology, ~ 800 p.)

6) *L'Economie à venir — conversations entre Gaël Giraud et Felwine Sarr*, Les Liens-qui-libèrent, Paris, forthcoming Spring 2021.

7) *Verso un mondo post-crescita*, Piemme/EMI, Milan, forthcoming Spring 2021.

8) *Post-Growth Economics in the Anthropocene*, Gallimard, forthcoming 2022.

Work in progress

a) *De l'essoufflement du christianisme* (second volume of my PhD in Theology, ~ 300 p., presumably to be published by Seuil, 2022.)

b) *Continuous-time Stock-Flow Consistent Dynamics for Macroeconomics* (with M. Grasselli). [A mathematical synthesis of our papers around macro-dynamics.]

Articles in non-refereed Journals (selection)

[1] “La charité, fondement du marché ?” *Sociétal*, 57, 3ème trim. 2007.

[2] “Flexicurité européenne, piège ou promesse ?”, *Projet* 1/2008 (n° 302), p.29-35.

[3] “Le déficit commercial français en débat”, *Projet* 2/2008 (n° 303), p.77-83.

[4] “Au-delà d'un troisième choc pétrolier”, *Projet* 3/2008 (n° 304), p. 76-82.

[5] “L'économie “d'acteurs capables”, *Projet* 5/2008 (n° 306), p. 4-11.

- [6] “Quelle économie européenne pour demain ?”, *Projet* 5/2008 (n° 306), p. 78-83.
- [7] “Crise financière, une chance?”, *Projet* 6/2008 (n° 307), p. 70-77.
- [8] “Nouveaux chemins de solidarité”, *Etudes*, Jan. 2009 - tome 410/1, p. 43-54.
- [9] “Finance de marchés et bien commun” (with F. Baule)
Revue de sciences humaines/Ethique/Société, 1 (2009) 61-81.
- [10] “Régulation mondiale, un rôle pour le FMI”, *Projet* 1/2009 (n° 308), p. 74-80.
- [11] “Pour un second Bretton Woods”, *Projet* 2/2009 (n° 309), p. 67-75.
- [12] “Les atouts de la France dans la récession”, *Projet* 3/2009 (n° 310), p. 70-77.
- [13] “L’emprunt national et l’avenir de la France”, *Projet* 5/2009 (n° 312), p. 80-87.
- [14] “Un emprunt pour l’éducation”, *Projet* 6/2009 (n° 313), p. 27-33.
- [15] “Leçons d’une crise et chantiers ouverts”, *Esprit*, p. 177-182, nov. 2009.
- [16] “Le rapport Sen-Stiglitz et le progrès social”, *Projet* 1/2010 (n° 314), p. 74-80.
- [17] “La dette grecque interroge la zone euro” *Projet* 2/2010 (n° 315), p. 72-79.
- [18] “Cómo reformar el capitalismo ?” (with C. Renouard) *Revista de Fomento social*, 259, 421-440 (2010).
- [19] “Quelle politique industrielle en Europe?”, *Projet* 3/2010 (n° 316), p. 76-82.
- [20] “Réguler les marchés de matières premières” (with P. Sarton du Jonchay), *Projet*, 5/2010 (n° 318), p. 12-19.
- [21] “Banques européennes : un espoir venant d’Asie ?”, *Etudes*, Sept. 2010 - tome 413/3, p. 148-150.
- [22] “Les Piigs, la dette et l’anorexie budgétaire”, *Projet* 6/2010 (n° 319), p.23-30.
- [23] “L’Europe entre faillite et reconstruction : année zéro”, *Etudes*, Feb. 2011 - tome 414/2, p. 241-243.
- [24] “L’épouvantail du protectionnisme”, *Projet* 1/2011 (n° 320), p. 80-89.
- [25] “Plaidoyer pour un protectionnisme européen”, *Projet* 2/2011 (n° 321), p.79-87.
- [26] “Vers le krach des dettes publiques”, *Projet* 4/2011 (n° 323), p. 79-86.
- [27] “Après le krach des dettes publiques, reconstruire”, *Etudes*, Oct. 2011 - vol. 415/4, p. 317-328.
- [28] “Dette : que nous réserve 2012 ?”, *Projet*, n° 326 2/2012.
- [29] “Faut-il augmenter l’impôt sur les revenus ?”, *Projet* n° 327 4/2012, (with C. Renouard).
- [30] “La zone euro piégée par les marchés financiers”, *Projet* n° 328 6/2012, p. 61-67.
- [31] “La crise de l’euro n’est pas finie”, *Esprit*, 5/2012 (mai), p. 7-9.
- [32] “Crise de l’euro : qui va payer ?”, *Projet*, n° 330, p. 79-87 octobre 2012
- [33] “BPI, la banque qui n’en est pas une”, *Projet* n° 331, p. 84-87 dec. 2012.
- [34] “Rendre le monopole de la création monétaire aux banques centrales ?”, *Revue Banque* 2012, n° 752.
- [35] “L’Union bancaire permettra-t-elle d’éviter une faillite bancaire ?”, 2013, *Revue Banque* n° 765.

- [36] “La réglementation financière décryptée par LABEX-ReFI : Le projet de loi de séparation bancaire français est-il suffisant ?”, 2013, *Revue Banque* n° 758.
- [37] “Proposals for a sustainable economy: liquidity and credit as commons”, *Estudios empresariales*, n. 141, p 13-26, 2013.
- [38] “Le nihilisme de l’après-pétrole», *Esprit*, 2014/3 (Mars/Avril) pp 240-254.
- [39] “Les objectifs du développement durable et *Laudato Si’* : une convergence ?”, *Etudes*, (with Ph. Orliange), p. 144-153, 2017/1, January.
- [40] “ Taxe carbone, un impératif pour éviter le désastre” *Revue Banque* 27 Setp. 2017 <http://www.revue-banque.fr/risques-reglementations/article/taxe-carbone-un-imperatif-pour-eviter-desastre>
- [41] “Faire de l’AFD une agence 100% lien social” *Projet* (5 Feb. 2018).
- [42] “Les Inégalités dans le monde”, (with F. Korreales). *Etudes*, Jan. 2019
- [43] “Financer la décarbonation”, *Esprit*, (March 2020).
- [44] “Per ripartire dopo l’emergenza Covid-19”, *Civiltà Cattolica*, Apr. 2020.
- [45] “La vie nue et notre démocratie”, *Etudes*, special issue on the pandemic.
- [46] “Una ‘retribuzione universale’ ”, *Civiltà Cattolica*, June 2020.
- [47] “L’economia di Francesco e i giovani”, *Civiltà Cattolica*, Dec. 2020.
- [48] “La difficile conversion à l’écologie de la recherche en économie” (with Q. Couix), *Annales des Mines* n. 101, 21-24, 2021.
- [49] “Les modèles économiques et financiers face à la polycrise écologique”, forthcoming *Annales des Mines*, 2021.
- [50] “A dialogue between Gaël Giraud and Thomas Piketty”, *Etudes*, forthcoming March 2021.

Chapters in books

- [1]“Economie mathématique”, in *Dictionnaire des sciences économiques*, Jessua Claude, Labrousse Christian, Vitry Daniel (Ed.) (2001) 558-567.
- [2] “Economie” in *Dictionnaire de la violence*, Michela Marzano (Ed.) (2011) 402-41. [3] “La Finance est-elle éthique ?”, in *Conférences de Carême à Notre-Dame de Paris*, Ed. Parole et Silence, 2012.
- [3] “François, l’Eglise et la construction européenne» in *L’Eglise que j’espère*, Flammarion-Etudes, 2013, Pape François.
- [4] “*Produire plus, polluer moins : l’impossible découplage ?*”, Les petits matins-Institut Veblen, 2014.
- [5] “Régulation financière : l’essentiel reste à faire», *Rapport moral sur l’argent dans le monde*, Association d’Economie financière, 2014.
- [6] “Le Cycle du levier” in *Comment la régulation financière peut-elle sortir l’Europe de la crise ?* (dir., Christian de Boissieu, François-Gilles Le Theule et P. Bailo), Éd. ENA, Collection Professionnels De L’Europe.
- [7] “Création monétaire”, in *Dictionnaire de l’Ecologie* (dir. D. Bourg), PUF, (2015).

- [8] “Le point de vue des économistes et leurs solutions” in *Un Monde d’inégalités* (dir. B. Badie), La Découverte, (2015).
- [9] “la finanza e la cura del creato” in *Curare Madre Terra*, EMI, Milano, 2015.
- [10] “La finanzia insostenibile”, in *Francesco e Noi*, Piemme, Milano, 2017.
- [11] “Les objectifs du développement durable sont-ils ‘durables’ ?”, *Développement durable*, (J-M. Chataignier, ed.) IRD, 2017.
- [12] “The Trouble with Climate Economics - comments on “Climate Change, Development, Poverty and economics” by Stern and Fankhauser”, in *The State of Economics, the State of the World*, (Kaushik Basu, ed.), MIT Press, 2019.
- [13] “Why Economics is a Moral Science: Lifting the Veil of Ignorance in the Right Direction”, in *Law, Economics, and Conflict*, K. Basu & C. Hockett (eds.) Cornell University Press, 2021.

Reports

- [1] “Pour une réforme bancaire plus ambitieuse : Vous avez dit Liikanen ? Chiche!”, 28 fév. 2013 (with L. Scialom), Terra Nova.
- [2] *Making the European Banking Union Macro-economically Resilient*, Report for the European Parliament, June 2015 (with Th. Kockerols).
[http://www.europarl.europa.eu/thinktank/en/document.html?reference=EPRS_STU\(2015\)558771](http://www.europarl.europa.eu/thinktank/en/document.html?reference=EPRS_STU(2015)558771)
- [3] *Report of the High level Panel on Carbon Pricing, with Nick Stern and Joe Stiglitz*, May, 29, 2017 (Berlin).
<https://www.carbonpricingleadership.org/report-of-the-highlevel-commission-on-carbon-prices>
- [4] *Un outil pour la délibération fiscale : l’impôt abc* (with M. Salin, J. Enguehard & E. Levieil), Institut Rousseau, Feb. 2021.
https://www.institut-rousseau.fr/app/uploads/2021/02/superPPde_retour-1.pdf

Prefaces

- [1] *Mon Amie, c’est la finance - comment François Hollande a plié devant les banquiers*, A. de Tricornot, M. Thépot, F. Dedieu, Bayard, 2014.
- [2] *La Fourmi n’est pas prêteuse. Conversations impertinentes sur l’argent*, Paul Clavier, Salvator, 2015.
- [3] *L’Imposture économique*, Steve Keen, Ed. de l’Atelier, 2015.
- [4] *La Lumière du noir*, Claire Meslot, 2015.
- [5] *Comment les Économistes réchauffent la planète*, Antonin Pottier, Seuil, 2016.
- [6] *Par delà le Marché*, Kaushik Basu, Ed. de l’Atelier, 2017.
- [7] *Reprendre le Contrôle de la dette* Adair Turner, Ed. de l’Atelier, 2017.
- [8] *Bien commun et éthique chrétienne*, David Hollenbach, Ed. des universités jésuites de Paris, 2017.
- [9] *Entreprise et bien commun*, Pierre-Etienne Franc, Ed. du Palio, Paris, 2017.

[10] *L'Entreprise comme commun. Au-delà de la RSE*, C. Renouard & S. Bommier, Ed. Charles Leopold Mayer, Paris, 2018.

[11] *Mondialisation et national-populisme : La nouvelle grande transformation*, A. Zacharie, Bord de l'eau, 2020.

[12] *Géomimétisme. Réguler le changement climatique grâce à la nature*, P. Gilbert, Les Petits Matins, 2020.

[13] *La Conversion écologique - chemins spirituels*, X. de Bénazé and C. Renouard, Ed. jésuites de Paris, forthcoming Spring 2021.

[14] *Thomas and the Market - toward a humane economy*, Harvard Univ. Press, 2018, [Mary Hirschfeld](#) [French transl., Cerf, forthcoming Fall 2021].

Congress proceedings

[1] "From Non-tâtonnement to Monetary Dynamics within General Equilibrium Theory: the Limit-Price Exchange Process", Congress « General equilibrium from Walras onwards », Université Paris-1, 7 octobre 2009.

[2] "Economie de marché et mystère du lien social", Congress « Face à une économie "sans foi ni loi" : les religions et le droit », université Toulouse I, 14-16 juin 2011.

[3] "Is there a Keynesian General Equilibrium Theory ?", Congress « 75 ans de Théorie générale, Université Paris-1, 2-3 décembre 2011.

Working Papers

1) "Money Velocity in an Imperfectly Competitive, Stock-Flow Consistent Dynamics: Debt-Deflation is back!" (with E. Dosseto), forthcoming.

2) "Directed Technical Change in an inventory Stock-flow Consistent Dynamics with Governements: from brown to green Capital" (with E. Dosseto), forthcoming.

3) "Macroeconomic Dynamics in a finite world: the Thermodynamic Potential Approach" (with A. Louis-Napoléon, E. Herbert, Y. D'Angelo, C. Goupil, G. Noel), forthcoming.

4) "Achieving Material Sustainability : a Dynamic Stock-Flow Consistent Growth Model under Natural Resource, Debt and Productivity Constraints" (with F. Rostom), forthcoming.

5) "The Akerlof-Stiglitz model revisited", work in progress.

Other writings

1) French translation of "Kleine theologische Bemerkungen zum *Status naturae lapsæ*" by Karl Rahner sj, Facultés jésuites de Paris, 2002.

2) "Les Enfants de Balimba", *Jésuites en mission*, Dec. 2000.

3) *Chemins vers la soif*, theater piece, played by the AVPA company (production: Valérie Castel- Jordy) in Paris, Lyon, Tours, 2010-2011, Facultés jésuites de Paris, 2011.

4) Contribution to *Justice in the Global Economy: Building Sustainable and Inclusive Communities, Promotio Justitiae*, (with D. Hollenbach SJ, M. Carnes SJ, M. Garanzini SJ) 2016.

Editorial activities

2016 - 2019 : Co-Editor of *Biophysical Economics and Resource Quality*.¹

Guest editor of *Journ. of Math. Econ.* (special issue 2003, “strategic market games”).

Refereeing in journals: *Econometrica*, *Journal of Economic Theory*, *Journ. of Public Econ.*, *Journ. of Math. Econ.*, *Economic Theory*, *Games and Economic Behavior*, *Theory and Decision*, *Recherches économiques de Louvain*, *Journal of Energy Policy*, *Biophysical Economics and Resource Quality*.

Ph D Students

1) Benjamin Nguénamadji Orntangar : “Dynamique de non-tâtonnement calculable en temps discret” (sept. 2008 - May 2011). [Consultant, Chad.]

2) Sonja Brangewitz : “Strategic and Cooperative Market Games”, (Sept. 2009 - Feb. 2012) (co-advisory with W. Trockel, Bielefeld.) [Assistant Professor, Paderborn university, Germany]

3) Hervé Lado : “Responsabilité sociétale des multinationales extractives dans le Delta du Niger” (Sept. 2010 - Dec. 2014.). [Natural Resource Governance Institute manager, Guinea.]

4) Pham Ngóc San : “Money in Infinite Horizon with Collateralized Assets” (Sept. 2011 - Sept. 2014). [Professor of Economics, EM Normandie Business School]

5) Veronica Acurio : “The Peak Oil in a DSGE model” (Sept. 2011 - Nov. 2014.) [Assistant professor, Metz university, France.]

6) Succès Masra: “Africa facing the Challenges of the Post-Oil Economy: the role of Development Financial Institutions in Promoting Renewable Energy”, (Sept. 2010, March 2015). [Senior economist at the African Development Bank.]

7) Florent McIsaac : “Energy and debts in a DSGE model” (Sept. 2012 - Dec. 2016) [Researcher AFD]

8) Rakesh Gupta : “Assessing the Impact of a public policy for compromised RCT: the Indian case” (Sept. 2012- June 2018). [Researcher World Bank, D.C.]

9) Aurélien Goutsmedt: "On the Return to Neo-Classical Economics in the 70s". (Oct. 2013 - Nov. 2017) [Post-doctoral fellow, Université du Québec, Montréal]

10) Fatma Rostom: “Non-linear Dynamics of Debt and Scarcity of Matter”, (co-advisory with O. Vidal, ISTER, Grenoble, Geophysics). (Sept. 2014 - Dec. 2019).

11) Emmanuel Bovari : “Politiques climatiques et mise en œuvre de la transition énergétique dans un cadre international" (Sept. 2016 - Nov. 2020) [National Treasury, Paris.]

12) **Edouard Dosseto** (Corps des Ponts et Chaussées) : “Gestion par les politiques publiques des risques financiers engendrés par le climat” (Sept. 2016-). [Ministry of Ecology, Paris.]

13) **Daniel Bastidas** : “Un Modèle multisectoriel et monétaire du Brésil” (Sept. 2015-).

14) **Hadrien Lantremange**: (CIFRE with Beyond Ratings). “Intégration des actifs écologiques des nations dans la modélisation économique de leur croissance et dans l’appréciation de la solvabilité des États” (Sept. 2016-).

¹<http://www.springer.com/energy/policy%2C+economics%2C+management+%26+transport/journal/41247>

15) Grégoire Noel: “Modelling the economy as a dissipative structure to address the ecological shift,” (Sept. 2020 -).

Lectures

2020-2021: “Public Policy evaluation”, **Sciences-Po** Paris, Master program “Governing the Large Metropolis”.

2018- : Globalisation, Governance and Development, **Stellenbosch university**, Postgraduate diploma in Sustainable Development, South Africa (together with Mark Swilling).

2018 : Macro-économie, développement et énergie (Ecole Polytechnique, Paris) + contribution to “The Political Economy of Climate” (Sciences-Po, Laurence Tubiana).

- 2015-2018: “Energy and Economics”, **Ecole Nationale des Ponts et Chaussées** (ENPC, Paris), Master program.

- 2014 : “The Ecological Transition”, **Ecole Normale Supérieure**, Ulm, (postgraduate program, Environnement et Société, CERES-ERTI), Paris.

- 2013 : La Crise financière et économique. Centre Sèvres, Paris.

- 2012 : Money, Banking and Finance, post-graduate, ESCP-Europe Business school, Paris.

- 2009- 12: Liquidity and Fair Value, Paris-1, Paris School of Economics, Master 2 ETE.

- 2009. Strategy, Auctions and IPO, post-graduate, ESCP-Europe business school, Paris.

- Summer 2004. “Mathematical finance in continuous time”, **National University of Ha-Noï**, doctoral program, (Vietnam).

- Summer 2003. “Introduction to Game Theory”, National University of Ha-Noï, doctoral program, (Vietnam).

- 2002-2004. Mathematical Finance (Master 2) University Paris-1 (Paris).

- 2002-2003. Evolutionary Game Theory (Ph.D lectures) University Louis Pasteur (Strasbourg).

- 2001-2002. Game Theory (Ph.D lectures) University Louis Pasteur (Strasbourg). - 1999-2000. General Equilibrium Theory (Graduate courses), University Louis Pasteur (Strasbourg).

- 1998-1999. Advanced Microeconomics, Master 2 CORE (University of Louvain-la-Neuve, Belgium).

- 1992-1998. Microeconomy, Macroeconomy, Mathematics (analysis, algebra, probability), History of Economic Thought, Undergraduate Paris-1 and 2, Ecole Normale Supérieure de Fontenay St-Cloud, ENSAE.

Congresses

Participation to Annual Conferences on General Equilibrium Theory and its Applications, International Conferences on Game Theory (Stony Brook, Hebrew university of Jerusalem...), Annual HDCA (Human Development and Capability Association) conferences, WCERE (World Congress of Environmental and Resource Economics), Annual Assemblies of the World Bank/IMF...

Patent

DeAPM : Descending electronic Auction for Primary Markets, (2004) (patent 60/568,549 methods and apparatus for primary markets).

Jesuit formation

2004 - Entry into the Society of Jesus, French Province.

2013 - Priesthood ordination.

2019-2020 9 month Tertianship, Dublin, Irlande.

Press articles (selection)

Le Monde (Feb. 5, 2021) (France), *El Pais* (Spain), *La Libre Belgique* (Belgium), *Der Freitag* (Germany), *l'Avvenire* (Italy)... "Annuler les dettes publiques détenues par la BCE pour reprendre en main notre destin" (with 100 other economists).

Le Monde (June 26 2020) "Il faut annuler le projet de quatrième terminal à l'aéroport Roissy-Charles-de-Gaulle". *Le Monde* "Il nous faut aujourd'hui un régime de retraite "post-croissance?" Dec. 26 2019

Le Monde (Sept. 26 2019) "La poursuite du déluge monétaire ressemble à l'action de pompiers pyromanes" (with J. M. Sauvé).

Le Monde (Feb. 14 2019) "Impôt : comment éclairer les termes du débat" (with E. Leveil).

2018

Le Monde (Dec. 6 2018) "Le lien social est ce qui fait qu'une société tient debout"

Le Monde (July 26 2018) "L'écologie intégrale n'est pas ce que vous croyez".

The Guardian (July 16 2018) "Buzzwords and tortuous impact studies won't fix a broken aid system" (with A. Deaton, J. Heckman and J. Stiglitz).

L'Obs, (July 2018) "L'Economie de la bienveillance".

Libération (March 23 2018) : " Apprendre à gérer l'eau d'ici 2050"

Le Monde (March 8 2018) : " L'éducation des jeunes filles est un défi planétaire pour le XXIe siècle"

Libération " Crise financière : Dettes, crédits, opacités? Les foyers de la déflagration sont connus"

Energie plus (February 15 2018) : "Le grand défi du XXIe siècle est de découpler nos activités humaines des émissions de CO2"

2017

Telerama (12/23/2017) "Et demain ?"

Socialter (12/14/2017) "Selon l'économiste Gaël Giraud, il y a assez d'argent pour financer la transition"

Le Figaro (12/12/2017) : "A Paris, un sommet sur le climat en quête de financements"

Le Monde (11/24/2017) "La priorité est de réduire le train de vie des plus riches, pas la natalité des plus pauvres"

La Croix (12/11/2017) : La finance est-elle l'ennemie du climat ?

L'Opinion (12/11/2017) : Gemmes ou le facteur climat modélisé

Le Monde Afrique (12/11/2017) "Un Sud-Soudanais devrait avoir le droit de polluer trois fois plus qu'un Français"

Alternatives économiques (dec. 2017) : "Réduire le train de vie des plus riches est la véritable priorité"

Socialter (nov-déc. 2017) : Gaël Giraud, un économiste en état d'urgence

The Conversation " Renforcer et connecter la recherche en Afrique, la réponse du Burkina Faso sur l'éducation" (avec Rohen d'Aiglepierre) <https://theconversation.com/renforcer-et-connecter-la-recherche-en-afrique-la-reponse-du-burkina-faso-sur-leducation-87947> 26 novembre ?

Le Monde Afrique “ La priorité est de réduire le train de vie des plus riches, pas la natalité des plus pauvres” http://www.lemonde.fr/afrique/article/2017/11/24/climat-la-priorite-est-de-reduire-le-train-de-vie-des-plus-riches-pas-la-natalite-des-plus-pauvres_5219657_3212.html 24 novembre ?
Ouest France (11/20/2015) “La transition écologique pour relancer l’Europe”
Tagesspiegel Newsletter [Allemagne] (11/20/2017) : Französische Atomkraftwerke abschalten
Le Figaro (11/4/2017) : De délicates équations financières
The Conversation “ Politique d’industrialisation en Afrique : l’aide au développement pour soutenir le "processus de découverte" en Ethiopie” <https://theconversation.com/politique-dindustrialisation-en-afrique-laide-au-developpement-pour-soutenir-le-processus-de-decouverte-en-ethiopie-85122> 3 octobre 2017
Socialter (oct/nov 2017) : Degrés de certitudes
Enerpresse (11/03/2017) : Corridor de prix du CO2 : la France attend l’Allemagne
Francetvinfo.fr (10/01/2017) : Journée mondiale du cacao et du chocolat : quand la spéculation appauvrit les petits producteurs
Le Monde (09/26/2017) ‘ Irma et Maria : La réduction des émissions de gaz à effet de serre, seule véritable réponse aux catastrophes naturelles” (with Fr. Rivière)
Le Journal de l’environnement (09/22/2017) “Hors la taxation du carbone, point de salut climatique?”

2008-2016

Les Échos

“ Economie mathématique” , Febr. 9. 2004.
 `Réglementer les marchés de gré-à-gré” , Nov. 12 2008.

Le Monde

“Une solution à la crise négociable avec l’Allemagne ?” (with A. Grandjean et al.) 12/12/2011.
 “Un projet de réforme bancaire insatisfaisant”, 13/02/2013.

La Croix

“ Repenser le rôle des banques centrales” , 02/21/2008
 “ De l’éthique des marchés au péché social” , 04/03/2008
 “ Les chantiers de la “taxe Chirac”” , 05/20/2008
 “ Inégaux devant la mort” , 07/03/2008
 “ Construire une société de la confiance” , 09/08/2008
 “ Cartes de crédit, le prochain krach” , 09/25/2008
 “ La France, un paradis fiscal ?” (with C. Renouard), 11/12/2008.
 “G20, un essai à transformer” , 04/14/2009.
 “ Les origines de la crise financière” , 07/06/2009.
 “ Le capitalisme peut-il être juste”(with C. Renouard), 08/12/2009.
 “ La crise n’est pas finie” , 08/25/2009.
 “ Comment réformer les banques” , 12/01/2009.
 “ Le plein, combien de temps encore ?” , 12/15/2009.
 “ Vers une économie de « biens partagés » ?” (with C. Renouard) 01/26/2010.
 “Le Cas Goldman Sachs” , 05/18/2010.
 “Le micro-crédit à but lucratif : un leurre”, 03/01/2011.

Others

“ El futuro esta en América del Sur” , *El Comercio*, Peru, 16/10/2009.
 “ Quelle politique industrielle européenne ?”, *Le Figaro*, 13/07/2010.
 “Appel à une sortie de crise par l’écologie” (with N. Hulot et al.), *Huffington Post*, 05/27/2012.

Languages

German (excellent), English (fluent), Russian, Spanish, Italian (scholar), Sàr (Chadian dialect), Schwiizerdütsch (Swiss dialect), Latin, Classical Greek, Biblical Hebrew.
 C++, SAS, T_EX, GAUSS(X), “R”, Python, piano (2d prize of the Euterpe competition, 1987).