Curriculum Vitae, October 2026

Raouf BOUCEKKINE
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Current academic & editorial functions

Professor, Aix-Marseille School of Economics
Senior Fellow, Fundamental research chair, *Institut Universitaire de France*
Coordinator of the CNRS International Research Network **E3E**
Research director**,** Chair "Triple Accounting" (hosted by *Fondation du Risque*, Paris)
Member of the Executive Committee (in charge of Africa), International Economic Association

Editor: Macroeconomic Dynamics (Cambridge)
Associate Editor (a.o): Journal of Economic Dynamics & Control (Elsevier), Economic Theory (Springer), Journal of Demographic Economics (Cambridge)
Corresponding member: IRES (UCLouvain), Belgium
Research associate: LEAD, UCBukavu, DRCongo

Awards and Honors

Fundamental Research Senior Chair, *Institut Universitaire de France*, 2026-2031
Fellow of the Econometric Society (elected in 2020)
Economic Theory Fellow, Society for the Advancement of Economic Theory (elected in 2025)
Senior Fellow of the *Institut Universitaire de France*, 2014-2019
Fellow of the institute for Advanced Study, Durham University, 2024-2025
Co-chair, 4th Intercontinental Academy on "Intelligence and Artificial Intelligence", 2020-22
Vice-President, Pan-African Scientific Research Council (PASRC), 2021-2023
President of ASSET (Association of Southern European Economic Theorists), 2017-2019
Vice-President of ASSET (Association of Southern European Economic Theorists), 2015-2017

Main former academic nominations, charges and responsibilities

Associate Dean for Research, Rennes School of Business, 2021-2024
Founder and inaugural director, Centre for Unframed Thinking (CUT), Rennes School of Business, 2022-2024
Member of the Advisory Board of the World Pandemic Research Network (WPRN), 2020-2023
Director, Institute for Advanced Study of Aix-Marseille (IMéRA), 2015-2020
Deputy Coordinator of UBIAS (University-Based Institutes for Advanced Study), 2018-2020
Scientific and technical director of the Labex RFIEA +, 2016-2020
Member of the Scientific Council of IRD (Institute for Research in Development), 2016-2020
Member of the Scientific Council of CREAD, Algeria, 2018-2022
Research director, Aix-Marseille of Economics, 2011-2015
CORE research co-director, UCLouvain, 2009-2010.
Director of the Doctoral Program in Economics at UCLouvain, 2000-2005.

Vice-President of the Institut de Recherches Economiques et Sociales (IRES), in charge of research, UCLouvain, 2000-2001.

Deputy chairman of the economics department at Carlos III de Madrid (in charge of teaching), 1997-1998.

Previous academic positions

Full professor, Rennes School of Business, 2021-2024

Professor (Professeur ordinaire), IRES and CORE, UCLouvain, 2007-2013.
Associate Professor, Department of Economics, UCLouvain, 1998-2007

Associate Professor, Department of Economics, Universidad Carlos III de Madrid, 1997-1998.

Assistant Professor, Department of Economics, Universidad Carlos III de Madrid, 1993-1997.

Part-time chair in economics, department of economics, University of Glasgow, 2007-2010.

Invited Professor, HEC-Paris, 2003-2007.

Invited Professor, Catholic University of Leuven (KUL), 2001-2005.
Invited Professor, Université Louis Pasteur de Strasbourg, 2001-2003.
Research Assistant, CEPREMAP (Paris), 1990-1993.

Doctoral studies

PhD: Economics, Université Paris I Panthéon-Sorbonne, October 1993

Dissertation: An alternative methodology for the simulation of nonlinear rational expectations economic models: Theory and applications (In French).

Committee: J-P. Laffargue (Chair), A. D'Autume, Ch. Gouriéroux, C. Le Van, E. Loute and **P. Malgrange (Advisor)**.

RESEARCH

Research areas: Growth and development, environmental and ecological economics, economic epidemiology, demography, political economy, operation research**,** applied mathematics

Publications

Books

Boucekkine, R., and O. Licandro. *Vintage Capital: Theory and Applications to Economic Growth and Resource Economics*. Cambridge University Press, forthcoming 2026.

Arezki, R., R. Boucekkine, J. Frankel, M. Laksaci and R. van der Ploeg (Eds.). *Rethinking the Macroeconomics of Resource-Rich Countries*. CEPR Press (London), April 2018.

Boucekkine R., N. Hritonenko and Y. Yatsenko (Eds.). *Optimal Control of Age-structured Populations in Economy, Demography, and the Environment*. Taylor & Francis, September 2010.

Publications in peer-reviewed journals (103 papers)

103. "Elite-led revolutions", (with R. Desbordes and P. Melindi-Ghidi), *Public Choice*, https://doi.org/10.1007/s11127-026-01469-4, forthcoming.

102. ``Economic development in an environmental growth model with emerging and re-emerging infectious diseases", (with L. Gori and M. Sodini), *Journal of Economic Behavior and Organization*, forthcoming.

101. ``When Lasry-Lions meet Krugman: A mean-field game theory of spatial dynamics", (with M. Bahlali and Q. Petit), *Journal of Economic Theory* 236, article 106217, 2026.

100.``The defanging effect of education and autocratic survival", (with R. Desbordes and P. Melindi-Ghidi), *World Development* 200, Article 107294, 2026.

99. "The mortality-fertility relationship from the economic demography perspective", (with Q. Bousmah and U. Sahlin), *Behavioral and Brain Sciences* 48, e101, 2025.

98. "Optimal behavior under pollution irreversibility risk and distance to irreversibility thresholds", (with W. Ruan and B. Zou), *Annals of Operations Research* 349, 1471-1500, 2025.

97. ''Endogenous growth, spatial dynamics, and convergence: A refinement", (with C. Camacho and W. Ruan), *Annals of Economics and Statistics* 159, 79-106, 2025.

96. ``Epidemiological-economic modelling: A progress report", (with S. Chakraborty, A. Goenka and L. Liu), *Journal of Mathematical Economics* 113, Article 103011, 2024.

95. "Uncertainty-driven symmetry breaking and stochastic stability in a generic lobbying differential game", (with F. Prieur, W. Ruan and B. Zou), *Economic Theory* 77, 1127-1171, 2024.

94. ``Fifty years of mathematical growth theory: Classical topics & new trends", (with E. Augeraud-Véron, F. Gozzi, A. Venditti and B. Zou), *Journal of Mathematical Economics* 111, Article 102966, 2024.

93. ``How do coalitions break down? An alternative view", (with C. Camacho, W. Ruan and B. Zou), *Dynamic Games and Applications* 14, 157-194, 2024.

92.``Balancing economic and epidemiological interventions in the early stages of pathogen emergence", (with A. Dobson, M. Pascual, T. Loch-Temzelides, G. Fabbri, F. Gozzi and C. Ricci), *Science Advances*, Vol 19, Issue 21, DOI: 10.1126/sciadv.ade6169, 2023.

91."The irreversible pollution game", (with W. Ruan and B. Zou), *Journal of Environmental Economics and Management* 120, Article 102841, 2023.

90. "Recycling of multi-source waste in an aggregate circular economy", (with F. El Ouardighi and K. Kogan), *Central European Journal of Operations Research* 32, 357 – 398, 2024. Reprinted in*: Essays on Pollution Control in Economics and Management Science*: *An interdisciplinary view*, F. El Ouardighi (Ed.), 237-281, 2025.

89. ``Why are inflation forecasts sticky? Theory and application to France and Germany", (with F. Bec and C. Jardet), *International Journal of Central Banking* 19, 115-149, 2023.

88. ``A dynamic programming approach to optimal pollution control under uncertain irreversibility: The Poisson case", (with W. Ruan and B. Zou), *Communications in Optimization Theory*, Vol 2023, Article ID 22, 1-14, 2023.

87. “On optimal coalition splitting with heterogenous strategies”, (with C. Camacho, W. Ruan and B. Zou), *Fulbright Review of Economics and Policy* (Special Issue in honor of Ngo Van Long), 3, 184-202, 2023.

86. “A dynamic theory of spatial externalities”, (with G. Fabbri, S. Federico and F. Gozzi), *Games and Economic Behavior* 132, 133-165, 2022.

85. “Managing spatial linkages and geographic heterogeneity in dynamic models with transboundary pollution”, (with G. Fabbri, F. Gozzi and S. Federico), *Journal of Mathematical Economics 98*, article 102577, 2022.

84. “Stochastic petropolitics: The dynamics of institutions in resource-dependent economies”, (with F. Prieur, V. Vasilakis and B. Zou), *European Economic Review* 31, article 103610, 2021.

83. “A theory of elite-biased democracies”, (with R. Desbordes and P. Melindi-Ghidi), *Mathematical Social Sciences* 112, 159-166, 2021.

82. “From firm to global-level pollution control: the case of transboundary pollution”, (with G. Fabbri, F. Gozzi and S. Federico), *European Journal of Operational Research* 290, 331-345, 2021.

81. “Control theory in infinite dimension for the optimal location of economic activity: The role of social welfare function”, (with G. Fabbri, S. Federico and F. Gozzi), *Pure and Applied Functional Analysis* 6, 871-888, 2021.

80. `` Long-run stability of money demand and monetary policy: the case of Algeria”, (with M. Laksaci and M. Touati Tliba), *Journal of Economic Asymmetries* (November), article e00217, 2021.

79. “A Lipsetian theory of voluntary power handover”, (with P. Piacquadio and F. Prieur), *Journal of Economic Behaviour and Organization* 168, 269-291, 2019.

78. “Growth and agglomeration in the heterogenous space: A generalized AK approach”, (with G. Fabbri, S. Federico and G. Gozzi), *Journal of Economic Geography* 19, 1287-1318, 2019.

77. “Biodiversity and its value: Conservation genetics meets economics”, (with N. Bonneuil), *Conservation Genetics Resources* 12, 141-151, 2020.

76. “Distributed optimal control models in environmental economics: A review”, (with E. Augeraud-Véron and V. Veliov), *Mathematical Modelling of Natural Phenomena* 14, article 106, 2019.

75. “Geographic environmental Kuznets curves: the optimal growth linear-quadratic case”, (with G. Fabbri, S. Federico and G. Gozzi), *Mathematical Modelling of Natural Phenomena* 14, article 105, 2019.

74. “A pedagogical note on risk sharing versus instability in international financial integration: When Obstfeld meets Stiglitz”, (with B. Zou), *Open Economies Review* 30, 179-190, 2019.

73. “Short-run pain, long-run gain: the conditional welfare gains from international financial integration”, (with G. Fabbri and P. Pintus), *Economic Theory* 65, 329-360, 2018.

72. “Mean growth and stochastic stability in endogenous growth theory”, (with P. Pintus and B. Zou), *Economics Letters* 166, 18-24, 2018.

71. “Longevity, age structure and optimal schooling”, (with N. Bonneuil), *Journal of Economic Behaviour and Organization* 136, 63-75, 2017.

70. “Variable mark-ups in the long-run: a generalization of preferences in growth models”, (with H. Latzer and M. Parenti), *Journal of Mathematical Economics* 68, 80-86 2017.

69. ``Parental morbidity, child work, and health insurance in Rwanda”, (with Q. Bousmah and M. Woode), *Journal of Demographic Economics* 83, 111-127, 2017.

68. “Viable Nash equilibrium in the problem of common pollution”, (with N. Bonneuil), *Pure and Applied Functional Analysis* 2, 427-440, 2017.

67. “On the timing of political regime changes in resource-dependent economies”, (with F. Prieur and K. Puzon), *European Economic Review* 85, 188-207, 2016.

66. “HIV-AIDS and Development: A Reappraisal of the Productivity and Factor Accumulation Effects”, (with T. Azomahou and B. Diene) *American Economic Review* 106(5), 472-477, 2016.

65. “Social capital as an engine of growth: Multisectoral modeling and implications”, (with Y. Baende and A. Pholo Bala), *Macroeconomic Dynamics* 20 (8), 2093-2122, 2016.

64. “Optimal transition to renewable energy with threshold of irreversible pollution”, (with N. Bonneuil), *The European Journal of Operational Research* 248, 257-262, 2016.

63. “Egalitarianism under population change: Age structure does matter”, (with G. Fabbri and F. Gozzi), *Journal of Mathematical Economics* 55, 86-100, 2014

62. “Sustainable growth under physical constraints: optimal R&D, investment and replacement policies”, (with N. Hritonenko and Y. Yatsenko), *Journal of Optimization Theory and Applications* 163, 310-331, 2014.

61. “Optimal sustainable policies under pollution ceiling: the demographic side”, (with B. Martinez and R. Ruiz-Tamarit), *Mathematical Modelling of Natural Phenomena* 9 (4), 38-64, 2014

60. “Growth and financial liberalization under capital collateral constraints: The striking case of the stochastic AK model with CARA preferences”, (with G. Fabbri and P. Pintus), *Economics Letters* 122, 303-307, 2014.

59. ''Health, work intensity and technological innovations", (with N. Hritonenko and Y. Yatsenko), *Journal of Biological Systems* 22, 219-233, 2014.

58. “Optimal regime switching and threshold effects”, (with A. Pommeret and F. Prieur), *Journal of Economic Dynamics and Control* 37, 2979-2997, 2013.

57. ``On the optimal control of some parabolic differential equations arising in economics”, (with C. Camacho and G. Fabbri), *Serdica Mathematical Journal* 39, 331-354, 2013.

56. ''Spatial dynamics and convergence: the spatial AK model", (with C. Camacho and G. Fabbri), *Journal of Economic Theory* 148, 2719-2736, 2013.

55. "Growth vs level effect of population change on economic development: An inspection into human-capital-related mechanisms", (with B. Martinez and R. Ruiz-Tamarit), *Journal of Mathematical Economics* 49, 312-334, 2013.

54. “On the optimal control of the vintage capital growth model with endogenous labor supply", (with. N. Hritonenko and Y. Yatsenko), *Mathematical Economics Letters* 1, 3-7, 2013

53. “Viable Ramsey economies”, (with N. Bonneuil), *Canadian Journal of Economics* 47, 422-441, 2014.

52. “On the timing and optimality of capital controls: Public expenditures, debt dynamics and welfare”, (with A. Pommeret and F. Prieur), *International Journal of Economic Theory* 9, 101-112, 2013.

51. ''Technological vs ecological switch and the environmental Kuznets curve", (with A. Pommeret and F. Prieur), *American Journal of Agricultural Economics* 95, 252-260, 2013.

50. ''Is history a blessing or a curse? International borrowing without commitment, leapfrogging and growth reversals", (with P. Pintus), *Journal of Economic Growth* 17, 27-47, 2012.

49. “Assessing Parfit's Repugnant Conclusion within a canonical endogenous growth set-up", (with G. Fabbri), *Journal of Population Economics* 26, 751-767, 2013.

48. “On the optimal control of a neutral differential equation arising in economics”, (with G. Fabbri and P. Pintus), *Optimal Control, Applications and Method*s 33, 511-530, 2012

47. “Vintage capital and the diffusion of clean technologies”, (with Th. Azomahou and P. Nguyen Van), *International Journal of Economic Theory* 8, 277-300, 2012.

46. “The Dynamics of Wealth Inequality under Endogenous Fertility: A Remark on the Barro-Becker Model with Heterogenous Endowments”, (with S. Bosi and T. Seegmuller), *Theoretical Economics Letters* 1, 3-7, 2011.

45. “Revisiting the optimal population size problem under endogenous growth: minimal utility level and finite lives”, (with G. Fabbri and F. Gozzi), *Asia-Pacific Journal in Accounting and Economics* 18, special issue on Trade and Dynamic Systems (K. Nishimura, Ed.), 287-306, 2011.

44. “Scarcity, regulation and endogenous technical progress”, (with N. Hritonenko and Y. Yatsenko), *Journal of Mathematical Economic*s 47, 186-199, 2011.

43. “Environmental quality versus economic performance: a dynamic game approach", (with J. Krawczyk and T. Vallée), *Optimal Control, Applications and Methods* 32, 29-46, 2011.

42. “Maintenance and investment: complements or substitutes? A reappraisal”, (with G. Fabbri and F. Gozzi), *Journal of Economic Dynamics and Control* 34, 2420-2439, 2010.

41. “Towards an understanding of trade-offs between regional wealth, tightness of a common environmental constraint, and the sharing rules", (with J. Krawczyk and Th. Vallée), *Journal of Economic Dynamics and Control* 34, 1813-1835, 2010.

40. “On the distributional consequences of epidemics”, (with JP. Laffargue), *Journal of Economic Dynamics and Control* 34, 231-245, 2010.

39. “Capital maintenance as a key development tool", (with B. Martinez and C. Saglam), *The Scottish Journal of Political Economy* 57, 547-567, 2010.

38. “On explosive dynamics in R&D-based models of endogenous growth", (with N. Hritonenko and Y. Yatsenko), *Nonlinear Analysis: Theory, Methods and Applications* 71, e693-e700, 2009.

37. “How do epidemics induce behavioral changes?”, (with R. Desbordes and H. Latzer), *Journal of Economic Growth* 14, 233-264, 2009.

36. “Technological progress, obsolescence and depreciation", (with F. del Rio and B. Martinez), *Oxford Economic Papers* 61, 440-466, 2009.

35. “The burden sharing of pollution abatement costs in multi-regional open economies", (with M. Germain), *The Berkeley Electronic Journals in Macroeconomics* (Topics) 9, Article 21, 2009.

34. “A closer look at the relationship between longevity and economic growth”, (with B. Diene and T. Azomahou), *International Journal of Economic Theory* 5, 201-244, 2009.

33. “Bridging the gap between growth theory and economic geography: The spatial Ramsey model, (with B. Zou and C. Camacho), *Macroeconomic Dynamics* 13, 20-45, 2009.

32. “A note on global dynamics and imbalance effects in the Lucas-Uzawa model: Further results", (with B. Martinez and R. Ruiz-Tamarit), *International Journal of Economic Theory* 4, 503-518, 2008.

31. “Human accumulation and the transition from specialization to multi-tasking", (with P. Crifo), *Macroeconomics Dynamics* 12, 320-344, 2008.

30. "Special functions for the study of economic dynamics: The case of the Lucas-Uzawa model", (with R. Ruiz-Tamarit), *Journal of Mathematical Economics* 44, 33-54, 2008.

29. “Demographic, economic and institutional factors in the transition to modern growth in England: 1530-1860", (with D. de la Croix and D. Peeters), *Population and Development Review* 34, Supplement, 126-148, 2008.

28. “Growth economics of epidemics: A survey of the theory", (with B. Diene and T. Azomahou), *Mathematical Population Studies* 15, 1-26, 2008.

27. “Early Literacy Achievements, Population Density and the Transition to Modern Growth", (with D. de la Croix and D. Peeters), *The Journal of the European Economic Association* 5, 183-226, 2007.

26. “Optimal control in infinite horizons: a Sobolev space approach", (with C. Le Van and C. Saglam), *Economic Theory* 32, 497-509, 2007.

25.“On the relationship between longevity and development",(with B. Diene and T. Azomahou), *The International Journal of Ecology and Development* 6, 31-50, 2007.

24. “Capital maintenance Versus technology adoption under embodied technical progress", (with B. Martinez and C. Saglam), *The Berkeley Electronic Journals in Macroeconomics* (Contributions) 6, Article 7, 2006.

23. “The development problem under embodiment", (with B. Martinez and C. Saglam), *Review of Development Economics* 10, 42-58, 2006.

22. “Vintage capital and the dynamics of the AK model", (with O. Licandro, L. Puch and F. del Rio), *Journal of Economic Theory* 120, 39-72, 2005.

21. “Obsolescence and modernization in the growth process", (with F. del Rio and O.Licandro), *Journal of Development Economics* 77, 153-171, 2005.

20. “Imbalance effects in the Lucas model: An analytical exploration", (with R. Ruiz-Tamarit), *The Berkeley Electronic Journals in Macroeconomics* (Topics) 4, article 15, 2004.

19. “Modelling vintage structures with DDEs: specification, stability and optimal control", (with D. de la Croix and O. Licandro), *Mathematical Population Studies* 11, 151-179, 2004.

18. “Technology adoption under embodiment: A two-stage optimal control approach", (with C. Saglam and T. Vallée), *Macroeconomic Dynamics* 8, 250-271, 2004.

17. “Energy saving technical progress and optimal capital stock: The role of embodiment" (with A. Pommeret), *Economic Modelling* 21, 429-444, 2004.

16. “The early mortality decline at the dawn of modern growth", (with D. de la Croix and O. Licandro), *The Scandinavian Journal of Economics* 105,401-418, 2003.

15. “Replacement, adoption and economic dynamics: Lessons from a canonical creative destruction model", (with B. Martinez), *Structural Change and Economic Dynamics* 14, 339-359, 2003.

14. “Embodied technological change, learning and the productivity slowdown", (with F. del Rio and O. Licandro), *The Scandinavian Journal of Economics* 105, 87-98, 2003.

13. “Information technologies, embodiment and growth", (with D. de la Croix), *Journal of Economic Dynamics and Control* 27, 2007-2034, 2003.

12. “Maintenance services and investment: Complements or substitutes?", (with R. Ruiz-Tamarit), *Journal of Economics* 78, 1-28, 2003.

11. “Human vintage capital, demographic trends and growth", (with D. de la Croix and O. Licandro), *Journal of Economic Theory* 104, 340-375, 2002.

10. “Technological shocks and IT revolutions", (with D. de la Croix and I. Vailakis), *Recherches Economiques de Louvain* 68, Special issue on The New Economy: Implications and viability, 75-89, 2002.

9. “Numerical solution by iterative methods of a class of vintage capital growth models", (with O. Licandro and A. Magnus), *Journal of Economic Dynamics and Control* 25, 655-669, 2001

8. “Endogenous Vs exogenously driven fluctuations in vintage capital models", (with F. del Rio and O. Licandro), *Journal of Economic Theory* 88, 161-187, 1999.

7. “Creative destruction, investment volatility and the average age of capital", (with M. Germain, O. Licandro and A. Magnus), *Journal of Economic Growth* 3, 361-384, 1998.

6. “Replacement echoes in the vintage capital growth model", (with M. Germain and O. Licandro), *Journal of Economic Theory* 74, 333-348, 1997.

5. “Differential-difference equations in economics: On the numerical solution of vintage capital growth models", (with O. Licandro and C. Paul), *Journal of Economic Dynamics and Control* 21, 347-362, 1997.

4. “Precision performances of terminal conditions for short time horizon systems with forward expectations" (with M. Juillard and P. Malgrange), *Computational Economics* 10, 169-186, 1997.

3. “Liquidity constraints and time non separable preferences", (with J. Adda), *Recherches Economiques de Louvain* 62, Special issue on Modelling macroeconomic dynamics: New developments, 377-402, 1996.

2. “Checking for saddlepoint stability: An easy test" (with C. Le Van), *Computational Economics* 9, 317-330, 1996.

1. “An alternative methodology for solving nonlinear forward-looking models", *Journal of Economic Dynamics and Control* 19, 711-734, 1995.

Invited publications in scientific journals and editorials (25 articles)

25. ``Introduction to the Special Issue on Economic Theory and Applications”, (with S. Auray and L. Linnemer), *Annals of Economics and Statistics* 159, 1-8, 2025.

24. “Collective intelligence is needed to ensure beneficial Artificial Intelligence”, (Lahlou, S., Las Casas, E., Bouin, O., Boucekkine, R., Rabinovici, E., Candiotto, L., Copeland, J., Cunha, E., Di Luca, M., Frassinelli, D., Fried, I., Fujita, A., Fukuda, T., Growiec, J., Guedj, B., Kasturi, S., Kellmeyer, P., Livermore, M., Mézard, M., … Yasutomo, K.), *Proceedings of the Paris Institute for Advanced Study* (Vol. 12), 2023. https://doi.org/10.5281/zenodo.13588574

23.``Introduction to the Special Issue on Mathematical Economic Epidemiology models”, (with T. Loch-Temzelides), *Economic Theory* 77, 1-7, 2024.

22. ``Introduction to the Special Issue on the economics of epidemics and public health”, (with R. Amir), Journal of Public *Economic Theory* 25, 1143-1148, 2023.

21. ``Challenges in the African development agenda”, *Congo Challenge Review* 5, 232-235, 2024.

20. ``Social divisiveness and social conflicts: Grievances matter” (with R. Desbordes et P. Melindi-Ghidi), *Congo Challenge Review* 5, 236-270, 2024.

19. “Guest Editors’ Introduction: The role of policy in reducing malnutrition in sub-Saharan Africa”, (with T. Azomahou, H. Kazianga, M. Korir and J. Ndung’u), *Food Policy* 113 C, 2022.

18. “Introduction to the special issue on New Insights Into Economic Epidemiology: Theory and Policy”, (with R. Amir), *Journal of Public Economic Theory* 24, 861-872, 2022.

17. “The economics of epidemics and contagious diseases: An introduction”, (with A. Carvajal, S. Chakrborty and A. Goenka), *Journal of Mathematical Economics* 93, Article 102498, 2021.

16. “Advances in growth and macroeconomic dynamics---*In memory of Carine Nourry*”, (with T. Seegmuller and A. Venditti), *Mathematical Social Sciences* 112, 1-6.

15. “Introduction to international financial markets and banking systems crises”, (with K. Nishimura and A. Venditti), *Journal of Mathematical Economics* 68, 87-91, 2017.

14. “Introduction to Globalization: Financial, Trade and Institutional Aspects with Applications to China”, (with X. Huang), *Pacific Economic Review* 21, 324-329, 2016.

13. “Technological progress and investment: a non-technical survey”, (with B. Cruz), *The Bukavu Journal of Economics and Social Sciences*, Volume 3, 10-31, 2017. L'Harmattan: Paris.

12. “Introduction to the Macroeconomic Dynamics special issue on Technology aspects in the process of development”, (with T. Azomahou, P. Mohnen and B. Verspagen), *Macroeconomic Dynamics* 20 (8), 1953-1956, 2016.

11. “Introduction to financial frictions and debt constraints”, (with K. Nishimura and A. Venditti), *Journal of Mathematical Economics* 61, 271-275, 2015.

10. “Epidemics from the theoretical view point”, *Mathematical Population Studies* 19, 1-3, 2012.

9. “Rente, corruption et violence: l’émergence d’un monde nouveau dans les pays arabes?”, (with R. Bouklia-Hassane), *Regards Economiques* 92, 2011.

8. “Introduction to the special issue on sustainability", *Mathematical Social Sciences* 59, 145-147, 2010.

7. “Presentacion: Decisiones de inversion y adopcion de nuevas tecnologias", (with L. Puch), *Cuadernos Economicos de ICE* 72, 5-10, 2006.

6. “Progreso tecnologico incorporado, adopcion y mantenimiento", (with B. Martinez and C. Saglam), *Cuadernos Economicos de ICE* 72, 155-175, 2006.

5. “Crecimiento economico y generaciones de capital", (with O. Licandro and L. Puch), *Cuadernos Economicos de ICE* 72, 229-254, 2006.

4. “Technologies de l'information et croissance économique" (with V. Bodart), *Regards Economiques*, June 2002.

3. “The New Economy, Implications and viability: Introduction" (with E. Wasmer), *Recherches Economiques de Louvain* 68, 3-5, 2002.

2. “ Progrès technique incorporé et l'énigme du ralentissement de la croissance", *Analyses Economiques et Prévisions*, March Issue, 65-92, 2000. Also available as Bulletin de l'IRES 218, 2000.

1. “On deterministic and stochastic simulation of nonlinear rational expectations models", *IMACS Proceedings*, Volume 4, INCA (Dublin), 1396-1401, 1991

Chapters in collective monographs (18 articles)

18. “Agroecology and biodiversity: A benchmark dynamic model”, (with E. Augeraud-Véron and R. Desbordes), in F. El Ouardighi and G. Feichtinger (Eds.*), The Unaffordable Price of Static-Decision making Models*, Springer, 195-218, 2025.

17. ``Nigeria: A fusion of elites enriched by economic extraction”, in T. Casas-Klett & G. Cozzi. (Eds.), Elite Quality Report 2023: Country Scores and Global Rankings. Zurich: **Seismo**. https://doi.org/10.33058/seismo.30882.3692.

16. ``Democratic Republic of the Congo: Cursed by resources, but elite circulation can break the value extraction cycle”, in T. Casas-Klett & G. Cozzi. (Eds.), Elite Quality Report 2023: Country Scores and Global Rankings. Zurich: **Seismo**. https://doi.org/10.33058/seismo.30882.4552.

15. ``On the distributional consequences of the knowledge economy and Artificial Intelligence”, **Annale Fondazione Feltrinelli**, 85-112, 2021.

14. ``Optimal switching from competition to cooperation: A preliminary exploration”, (with C. Camacho and B. Zou), in: *Dynamic Economic Problems with Regime Switches,* V. Veliov, J.Haunschmied, R.Kovacevic , and W.Semmler (Eds.), **Springer Nature Switzerland AG**, 209-225, 2021.

13. ``Optimal population growth as an endogenous discounting problem: The Ramsey case”, (with B. Martinez and R. Ruiz-Tamarit), *Lecture Notes in Economics and Mathematical Systems- Essays in honor of Vladimir Veliov*, G. Feichtinger, R. Kovacevic, and G. Tragler (Eds.), vol. 687, 321-347, **Springer**, 2018.

12. “Introduction”, (with R. Arezki, J. Frankel, M. Laksaci and R. van der Ploeg), in R. Arezki et al. (Eds.), *Rethinking the Macroeconomics of Resource-Rich Countries*, **CEPR Press**, pages 9-19, 2018.

11.“Technological progress, employment and the life time of capital”, (with N. Hritonenko and Y. Yatsenko), *Sunspot and Non-linear Dynamics- Essays in honor of Jean-Michel Grandmont*, K. Nishimura, A. Venditti and N. Yannelis (Eds), "Studies in Economic Theory" series, **Springer Verlag**, 305-338, 2017.

10. “Optimal growth with polluting waste and recycling”, (with F. El Ouardighi), in *Dynamic Perspectives on Managerial Decision Making- Essays in honor of Richard Hartl*, H. Dawid et al (Eds.), **Springer-Verlag**, 109-126, 2016.

9. “Contract rules in codes and statutes: easing business across the cleavages of Legal Origins Theory”, (with F. Docquier, F. Ngendakuriyo, H. Schmiegelow and Michèle Schmiegelow), in *Institutional Competition between Common Law and Civil Law*, M. and H. Schmiegelow (Eds.), **Springer-Verlag**: Berlin, pp 41-82, 2014.

8. ''The dynamics of lobbying under uncertainty: on political liberalization in Arab countries'', (with F. Prieur and K. Puzon), in: *Dynamic Games in Economics*, J. Haunschmied, V. Veliov and S. Wrzaczek (Eds.), **Springer-Verlag**: Berlin, pp 69-88, 2014.

7. “Vintage capital growth theory: Three breakthroughs”, (with D. de la Croix and O. Licandro”, in *Frontiers in Economics and Globalization* (O. de la Grandville, ed.), **Emerald**, chapter 5, 2011.

6. “Age-structured modelling, past, present and new perspectives”, in *Optimal control of age-structured populations in economics, ecology and the environment* (R. Boucekkine, N. Hritonenko and Y. Yatsenko, Eds.), **Taylor and Francis**, Introduction chapter, 2010.

5. “Vintage capital", (with D. de la Croix and O. Licandro), **The New Palgrave Dictionary of Economics, Second Edition**, S. Durlauf and L. Blume (Eds.), 628-631, 2008.

4. “Why capital maintenance is a key development tool?”, (with B. Martinez and C. Saglam), in A. Nyembwe (Ed.), *Development and International Economics*, **Presses Universitaires de Louvain**, 75-98, 2008.

3. “Changement organisationnel et capital humain”, (with P. Crifo), in *Capital humain et marchés du travail: Perspectives régionales et européennes*, (H. Sneessens and E. Wasmer, eds.), 33-48, **CIFoP**, Charleroi, 2002.

2. “Knowledge, technology and economic growth" (with D. de la Croix), in *How to Promote Growth in the Euro Area*, M. Dombrecht and J. Smets (editors), **Edward Elgar**, 98-103, 2002.

1. “Monte Carlo experiments for large scale forward lookingeconomicmodels", in *Predictability and Nonlinear Modelling in Natural Sciences and Economics*, J. Grasman and G. Van Straten (editors), 599-609, **Kluwer Academic Publishers** (Dordrecht), 1994.

Ongoing work and papers (8 papers)

1. ``Behavioral feedbacks undermine epidemic control”, (with J. Adda and J. Thuilliez), under review.

2. ``An integral transformation approach to differential games with a climate model application”, (with G. Fabbri, S. Federico, F. Gozzi, T. Loch-Temzelides and C. Ricci), under review.

3. “Revisiting the theory of International Environmental Agreements with heterogenous players”, (with W. Ruan and B. Zou), under revision

4. ``A unified theory of institutional dynamics” (with R. Desbordes, W. Ruan and B. Zou), under revision

5. “Optimal growth under irreversible pollution: The Forster-Ramsey model”, (with N. Hritonenko, Y. Yatsenko and U. Sahlin), under review.

6. ``Backsliding from democracy: Mean-Field Game theory and empirical exploration”, (with C. Azémar, M. Bambi and R. Desbordes), in progress.

7. ``Optimal prevention and eradication of biological invasions - theoretical and empirical results from a dynamic multispecies model”, (with U. Sahlin, J. Ripa, H. Smith and R. Desbordes), in progress.

8. ``Multilateral governance of invasive alien species management: An ecologocial-economic framework with allee effect”, (with W. Ruan and U. Sahlin), under review.

Editorial activities

Editor: *Macroeconomic Dynamics*, Oct 2026-

Associate editor: *Economic Theory*, 2022- ; *Economic Theory Bulletin*, 2022- ; *J. of Economic Dynamics & Control*, 2015- ; *Annals of Economics and Statistics*, 2010- ; *J. of Demographic Economics*, 2013- ; and *Journal of International Economics and Management*, 2025-

Former associate editor of: *J. of Public Economic Theory*, 2006-2025; *Macroeconomic Dynamics*, 2010- Sept 2026; *Journal of Mathematical Economics*, 2014-2025; *Mathematical Social Sciences*, 2007-2018; *Mathematical Population Studies*, 2008- 2010; and *Investigaciones Economicas*, 2003-2009

Guest editor

- Guest co-editor with E. Wasmer of a special issue of *Recherches Economiques de Louvain*: "The New Economy: Implications and viability", April l 2002
- Guest editor of a special issue of *Mathematical Population Studies*: "Vintage modelling in economics and economic demography", volume 15, issue 4, 2008.
- Guest editor of a special issue of *Mathematical Population Studies:* "Overlapping-generations modelling", volume 16, issue 1, 2009.
- Guest editor of a special issue of *Mathematical Social Sciences* on "Sustainability", volume 59, March issue, 2010.
- Guest co-editor with L. Puch of a special issue of *Cuadernos Economicos de ICE*: "Decisiones de inversion y adopcion de nuevas tecnologias", volume 72, 2006.
- Guest editor of a special issue of *Mathematical Population Studies*: "Epidemics from the economic theory viewpoint", volume 19, issue 1, 2012.
- Guest co-editor with K. Nishimura and A. Venditti of a special section of *Journal of Mathematical Economics*: "Financial frictions and debt constraints", volume 61, 2015.
- Guest co-editor with K. Nishimura and A. Venditti of a special section of *Journal of Mathematical Economics*: "International financial markets and banking systems crises", volume 68, 2017.
- Guest co-editor with T. Azomahou, P. Mohnen and B. Verspagen of a special issue of *Macroeconomic Dynamics*: "Technology aspects in the process of development", volume 20, issue 8, 2016.
- Guest co-editor with X. Huang of a special issue of *Pacific Economic Review*: "Globalization: Financial, Trade and Institutional Aspects with Applications to China", Part I in volume 21, issue 3, 2016, and Part II in volume 22, issue 1, 2017.
- Guest co-editor with E. Augeraud, and V. Veliov of a special issue of *Mathematical Modelling of Natural Phenomena*: "Economics and the environment: distributed optimal control models", Volume 14, issue 1, 2019.
- Guest co-editor with S. Chakraborty and A. Goenka of a special issue of *Journal of Mathematical Economics* on "The economics of epidemics and emerging diseases", Volume 93, March 2021.
- Guest co-editor with T. Seegmuller and A. Venditti of a special issue of *Mathematical Social Sciences* on ``Advances in Growth and Macroeconomic Dynamics---In memory of Carine Nourry", 2021.
- Guest co-editor with R. Amir of a special issue of *Journal of Public Economic Theory* on `` New Insights Into Economic Epidemiology: Theory and Policy", October 2022.
- Guest co-editor with T. Azomahou, H. Kazianga, M. Korir and N. Ndung'u of a special issue of *Food Policy* on ``The agricultural impacts of agricultural, food and nutrition policies in Sub-Saharan Africa", 2022.

- Guest co-editor with R. Amir of a special issue of *Journal of Public Economic Theory* on `` the economics of epidemics and public health", December 2023.
- Guest co-editor with T. Loch-Tamzelides of a special issue of *Economic Theory* on ``Epi-econ mathematical modelling", January 2024.
- Guest co-editor with S. Auray and L. Linnemer of a special issue of *Annals of Economics and Statistics* on ``Economic Theory and Applications", September 2025.
- Guest co-editor with A. Venditti and M. Yano of a special issue of *Journal of Economic Behavior and Organization* on ``Origins and Stabilization of Economic Cycles: A special issue in honor of Kazuo Nishimura", forthcoming 2027.

Refereeing activities

For economic journals (among many others)

Econometrica, Journal of Economic Theory, Journal of Mathematical Economics, Journal of Economic Growth , Journal of the European Economic Association, Macroeconomic Dynamics, Journal of Economic Dynamics and Control, Games and Economic Behaviour, Review of Economic Studies, Journal of Political Economy, American Economic Review, American Economic Review: Insights, International Economic Review, Economic Journal, Mathematical Social Sciences, Review of Economic Dynamics, Journal of Public Economics, American Economic Journal: Macroeconomics, American Journal of Agricultural Economics, Journal of International Economics, Economic Theory, Journal of Economic Behaviour and Organization, Journal of Development Economics, Journal of Economic Geography, European Economic Review, Scandinavian Journal of Economics, Journal of Environmental Economics and Management…

For applied mathematics journals (among others)

Mathematics of Operations Research, Management Science, Automatica, Omega, Numerical Algorithms, Annals of Operation Research, International Transactions in Operational Research, Optimization, Optimal Control Applications and Methods, Nonlinear Analysis Series B , Journal of Optimization Theory and Applications, Systems and Control Letters, European Journal of Operational Research, Central European Journal of Operational Research, Mathematical Biosciences and Engineering, Engineering Analysis with Boundary Elements, Set-valued and Variational Analysis, Differential Equations & Dynamical Systems…

For interdisciplinary journals (among others)

Nature Computational Science, Humanities and Social Sciences Communications (Nature), Mathematical Population Studies, Population Studies, Computers in Biology & Medicine, Resources Conservation & Recycling, Technological Forecasting and Social Change, Demographic Research, Mathematical Medicine and Biology, International Health and Human Rights…

Invited conferences: keynote speaker (28 conferences)

Conference HEDGE on ``Health, Environment, Development and Growth Economics: New Perspective and Challenges", Pisa, February 2026

Modelling individual mobility problems with Mean-Field Games: When Lions meets Krugman

Conference on ``Impact of the Human Activities on the Environment and Economic Decision Making in a Heterogeneous Setting: Mathematical Models and Policy Implications", Rome, October 2025

Differential climate games with heterogenous players

16th Viennese Conference on Optimal Control and Dynamic Games, Vienna, July 2025

Individual spatial mobility decision problems as mean-field games

Second Workshop on the Economics of Pandemics Preparadness, Stockholm, June 2025

Epidemics, mental health, and public trust

ECOBAS Conference on ``Ecological Transition: Theory and Practice", Santiago de Compostela, June 2025

Irreversible local pollution: Accounting for Uncertainty and Strategic Interactions

15th Vietnam Economist Annual Meeting, Binh Duong, December 2024

New developments on the control of transboundary pollution: A tractable framework for strategic aspects exploration

Second International Workshop on "Economic Growth and Macroeconomic Dynamics, University La Sapienza of Rome, September 2024

New developments on the control of transboundary pollution: A tractable framework for strategic aspects exploration

17th Annual Conference on Economic Growth and Development, Indian Statistical Institute, New-Delhi, December 2022

Elite-led revolutions

Econometric Society Winter School, Delhi School of Economics, New-Delhi, December 2022

Epidemics, growth and economic behavior: Traditional approaches and new Covid-driven research

UBIAS 4th Intercontinental Academy on Intelligence & Artificial Intelligence, Belo Horizonte, November 2022

On AI impact on economics and the economy

15th Viennese Conference in Optimal Control & Dynamic Games, Vienna, July 2022

Epidemics, growth and economic behavior: Traditional approaches and new covid-driven research

10th Conference on Dynamic Games in Management Sciences, Rabat, November 2018

Institutional dynamics in resource-rich countries as dynamic games

39emes JESF, Marseille, November 2017

Health, epidemics and development

Econometric Society African Meeting, Algiers, June 2017

Institutional dynamics in resource-dependent economies

Annual SURED conference, Banyuls-sur-Mer, June2016

Institutional dynamics under stochastic environments

CEAFE Conference, Marseille, March 2016, 6th Euro-African Economic Conference
On the duration of autocracies: Theory and application to Arab countries

Hammamet (Tunisia), March 2015, Conference on "Macroeconomic policies during crises periods"
L'Algérie entre le marteau et l'enclume: Printemps arabe, contre-choc pétrolier et politique économique

Kinshasa (DRCongo), January 2015, High-level conference on promoting growth in the Democratic Republic of Congo
The demographic ingredients of development: the case of Congo

Marseille, December 2014, Anglo-French-Italian Macro Workshop
An AK theory of financial liberalization

Hang Zhou (China), October 2014, Annual meeting of the Chinese Society of World Economics (Zhejiang University)
The growth and welfare implications of financial liberalization

Strasbourg, June 2014*, 5th Doctoral Workshop on Dynamic Macroeconomics*
On political regime changes in Arab countries

Luxembourg, May 2014*, 4th CREA Conference on Economics on Tax Competition and Public Policy"*
The strategic ingredients of the Arab Spring

Livorno (Italy), September 2013, *IV CICSE Conference on Structural Change, Dynamics and Growth*
Financial globalization, growth and welfare: an AK theory of international borrowing without Commitment

Brussels, December 2012, Conference at Société Royale d'Economie Politique de Belgique
Rente, corruption et violence : Genèse et conséquences du Printemps arabe

Cap-Town (South-Africa), November 2012, 6th Micro-Evidence on Innovation and Development (MEIDE) conference
The gift of longevity, age-structure and development: theory and policy implications

Darmstadt (Germany), June 2012, Conference on Health, Development and Inequality
Mortality shocks, health capital and income distribution

GREQAM Doctoral Spring School, May 2010
Growing over time and space

T2M Annual Conference, Cergy, January 2008
On the distributional consequences of epidemics

PhD thesis supervision: completed theses

40. Mykhailo Matvieiev (supervised with C. Poilly), Macroeconomic uncertainty: distributional and aggregate effects, Aix-Marseille Université, July 2025

39. Kevin Genna (supervised with A. Venditti), Green development and policies in multi-sector models, Aix-Marseille Université, July 2021.

38. Régis Swadogo (co-supervised with C. Garcia), State capacity, unified growth theory and development, Aix-Marseille Université, December 2017.

37. Guzman Ourens (co-supervised by F. Meyneris), Growth and trade with firm heterogeneity, Université catholique de Louvain, September 2017.

36. Emma Hooper (co-supervised with P. Pintus), Essays on international finance and sustainable growth in natural resource rich countries, Aix-Marseille Université, October 2016.

34. Alice Mufungizi (co-supervised with F. Gaspart), Agricultural production, market structure and location in South-Kivu, Université catholique de Louvain, March 2016

35. Qays Bousmah (co-supervised by B. Ventelou), Morbidity, mortality and fertility, Aix-Marseille University, February 2015

33. Celestin Buchekuderwha (co-supervised with JB. Ntagoma), Essays on technology adoption in subsistence farming, Université catholique de Bukavu (RDCongo), June 2014.

32. Alexandre Simons, North-South technology transfer and globalization, Université catholique de Louvain, Janvier 2014.

31. Bastien Chabe-Ferret (co-supervised by JM. Baland), Inequalities in the development process, Université catholique de Louvain , April 2013.

30. Daria Onori (co-supervised with E. Marchetti), Schumpeterian growth and endogenous fluctuations, Université catholique de Louvain and Universita La Sapienza di Roma, June 2013.

29. Chrysovalantis Vasilakis (co-supervised by F. Docquier), Essays in development economics, Université catholique de Louvain , March 2013.

28. Olivier Sterck (co-supervised by W. Parienté), Essays on sustainable development, Université catholique de Louvain, March 2013.

27. Paolo Piacquadio, (co-supervised by F. Maniquet), Essays on intergenerational justice, Université catholique de Louvain, December 2012 .

26. Youyou Baende, Essays on social capital and development, Université catholique de Louvain, June 2012.

25. Tanguy Isaac, Information revelation and intergenerational fairness, Université catholique de Louvain, October 2011.

24. Fabien Ngendakuryo, Institutions and growth, Université catholique de Louvain, June 2011

23. Raul Fuentes, Economic Development, aid and foreign direct investment, Université catholique de Louvain, June 2011.

22. Giulio Nicoletti, Essays on dynamic monetary macroeconomics, Université catholique de Louvain, April 2010.

21. Hélène Latzer, Essays in economic development, Université catholique de Louvain, January 2010.

20. Concetta Mendolicchio, (co-supervised with Vincent Vandenberghe), Essays on education and economics, Université catholique de Louvain, July 2009.

19. Hai Do, (co-supervised with Benoit Rihoux), Fighting poverty in Vietnam, Université catholique de Louvain, December 2008.

18. Claudio Mattalia, Technological and organizational aspects in promoting growth, Université catholique de Louvain, July 2008.

17. Carmelo Parello, Essays on globalization and economic development, Université catholique de Louvain, February 2008.

16. Bity Diene (co-supervised with R. Dos Santos Ferreira), Essays on life expectancy and economic development: The role of epidemics, Université Louis Pasteur, Strasbourg (France), December 2007.

15. Jakub Growiec, Essays in economic growth theory, Université catholique de Louvain, October 2007.

14. Antonio Minniti, Essays on R&D, growth and market structure, Université catholique de Louvain, August 2007.

13. Luca Spinesi, Essays on economic growth, Université catholique de Louvain, April 2007.

12. Agustin Barahona, Natural resources, environment and economic growth, Université catholique de Louvain, March 2007.

11. Carmen Camacho, (co-supervised with David de la Croix), Essays on growth and geography, Université catholique de Louvain, January 2007.

10. Jean-Baptiste Ntagoma, Corruption, fiscal decentralization and growth in developing countries, Université catholique de Louvain, June 2005.

9. Benteng Zou, Essays in economic dynamics with heterogenous capital goods, Université catholique de Louvain, June 2005.

8. Ornella Tarola, (co-supervised with Guido Cozzi), Essays on R&D-based endogenous growth models, Université catholique de Louvain, May 2005.

7. Bruno Cruz, (co-supervised with Aude Pommeret), Essays on public investment and growth, Université catholique de Louvain, March 2005.

6. Yiannis Vailakis, (co-supervised with Cuong Le Van), Essays on optimal growth and recursive utility, Université catholique de Louvain, December 2003.

5. Huseyin Cagri Saglam, Innovations, growth and incentive design, Université catholique de Louvain, May 2003.

4. Alberto Bucci, Schumpeterian models of growth and fluctuations, Université catholique de Louvain, September 2002.

3. Blanca Martinez, Essays on technology adoption and capital maintenance, Université catholique de Louvain, February 2002.

2. Fernando del Rio (co-advisor with Omar Licandro), Monopolistic competition in overlapping generations models, and embodied technical progress in vintage capital models, Universidad Carlos III de Madrid, March 2000.

1. Jorge Duran (co-advisor with Manuel Santos), Dynamic programming with unbounded returns, Universidad Carlos III de Madrid, June 1999.

Coordination and supervision of research projects/chaires (other than LABEX projects)

Coordinator of the International Research Network (IRN) **E3E** on "A unified Ecological-Epidemiological-Economic framework for quantifying the impact and policy response to emerging pathogens", funded by the CNRS, 2025-2030.

Research Director, Chair ``Triple Accounting", Institut Louis Bachelier (Paris), May 2025-

Principal Investigator of a research project on "The economic epidemiology of COVID-19" (with J. Thuilliez and J. Adda), ANR grant (French National Research Agency), 2020-2021

Coordinator of a research project on "Evaluation of public research in France", funded by the MESRI (French Ministry of High Education, Research and Innovation", 2020-2021.

Coordinator of the PIC project ("Projet Inter-universitaire de Coopération") for the Belgian Cooperation Agency (CUD) on Fighting Poverty in South Kivu (RDC), 2008-2013.

Coordinator of the research project Action de Recherche Concertée (ARC 03/08-302), Communauté Française de Belgique. Topic: New macroeconomic perspectives in economic development, 2003/2008.

Coordinator (from 2003) of the research project Action de Recherche Concertée (ARC 99/04-235), Communauté Française de Belgique. Topic: Growth and incentive design, 1999/2004

Supervisor of the research project PAI P5/10, financed by the Belgian Federal Government. Topic: Equilibrium theory and optimization for public policy and industry regulation, 2003/2007.

Supervisor of the research project Actions Concertées Incitatives (ACI), Ministère délégué à la Recherche du gouvernement Français. Topic: Changement technique et développement durable, 2005/2007.

Supervisor of a research project funded under the contract c26087 of the European Commission, DG information society. Topic: Information technologies and growth, 2000/2003

Organization of scientific events (small selection)

- Co-organizer (with D. Alno) of the First Rennes School of Business Summit on Leading Sustainability Transformations, October 9-10, 2023, Rennes.
- Co-organizer (with T. Loch-Temzelides) of a conference on Frontiers in Epidemiological Economics, October 12-13, 2024 (joint event Rice University & Rennes School of Business), Paris.
- Co-organizer of the 10th anniversary conference of the Institute for Advanced Study at Aix-Marseille (IMéRA) on "Energy: Challenges and perspectives", November 2018.
- Member of the Scientific Committee of the 14th Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics, July 2018.
- Co-chairman of the 2017 Annual ASSET conference in Algiers, October 2017
- Member of the Scientific Committee of the 13th Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics, 2015.
- Member of the Scientific Committee of the 12th Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics, 2012.
- Member of the Scientific Committee of 2012 meetings of the French Economic Association (AFSE)
- Session organizer in optimal control in the 24th European Conference on Operational Research (EURO), Lisbon, July 2010.
- Member of the Scientific Committee of the 15th Annual Conference of APET (Association of Public Economic Theory), Luxembourg, July 2015.
- Member of the Scientific Committee of the 14th Annual Conference of APET (Association of Public Economic Theory), Seattle, July 2014.
- Member of the Scientific Committee of the 13th Annual Conference of APET (Association of Public Economic Theory), Lisbon, July 2013.
- Member of the Scientific Committee of the 10th Annual Conference of APET (Association of Public Economic Theory), Istanbul, June 2010.
- Member of the Scientific Committee of the 17th Annual Conference of EARE (European Association of Environmental and Resource Economists), Amsterdam, June 2009.
- Session organizer in optimal control in the 23rd European Conference on Operational Research (EURO), Bonn, July 2009.
- Member of the Scientific Committee of the 9th Annual Conference of APET (Association of Public Economic Theory), Galway (Ireland), June 2009.
- Coordinator of the organizing local committee of the conference New Challenges in Economic Research, September 2007 at Louvain-la-Neuve.
- Co-organizer with Th. Bréchet of an international conference on "Macroeconomic dynamics, technological change and the environment", CORE-UCL, November 2006.
- Member of the International Program Committee of the Limassol Society of Computational Economics annual meeting, June 22-24, 2006.
- Co-organizer of the joint seminar CES-UCL-ULB with the National Bank of Belgium, on monetary theory and policy, 2004 and 2005.
- Co-organizer with O. Licandro and L. Puch of an international conference on "Vintage modelling in economics and economic demography", European University Institute (Florence, Italy), September 2005.
- Member of the International Program Committee of the Paris Association of Public Economic Theory annual meeting, July 3-6, 2002.
- Member of the International Program Committee of the Aix-en-Provence Society of Computational Economics annual meeting, June 27-29, 2002.

- Session organizer at the 2002 Society for Computational Economics annual conference. Title of the session: Dynamic models of technology adoption (Aix, France)
- Co-organizer (with Etienne Wasmer) of an international conference on “Analyzing the New Economy" at University of Metz (France), April 27 and 28, 2001.
- Member of the International Program Committee of the Barcelona Society of Computational Economics annual meeting, July 6-8, 2000.
- Session organizer at the 2000 Society for Computational Economics annual conference Title of the session: Macroeconomic models with vintage capital (Barcelona, Spain)
- Session co-organizer (jointly with Pierre Malgrange) at the 1999 Society for Computational Economics (SCE) annual conference. Title of the session: Models of creative destruction (Boston)
- Session organizer at the 1998 Society for Computational Economics (SCE) annual conference. Title of the session: Differential-difference equations and economic fluctuations (Cambridge, UK)

Research projects evaluation committees (short selection)

- Member of the International Committee for the evaluation of research in economics and management, appointed by the Portuguese Foundation of Science and Technology, July 2001, Lisbon.
- Appointed by the Austrian Foundation of Science (FWF) for the evaluation of research projects in economics, February 2002.
- Appointed by Fundacion Ramon Areces (Spain) for the evaluation of research projects in economics, December 2002 to January 2003.
- Appointed by the Italian Science Foundation for the evaluation of research in economics in Italy, Spring 2005.
- Member of the "Jury d'agrégation" for professorship in economics in France for the academic year 2005/2006.
- Member of the ANR (French research agency) committee for the evaluation of research projects in economics in 2008-2009 and 2011-2012.

Opinions and interviews (sample)

“L’Algérie face à une crise sanitaire et un choc pétrolier : La situation est catastrophique “, Nouvel Obs (France), April 25, 2020

“On peut survivre avec deux mois d’importations si on a un avenir”, El Watan (Algeria), April 8, 2020

“La baisse des dépenses et la dévaluation du dinar, la seule option à court terme”, Liberté (Algeria), March 10, 2020.

“Algérie: Comment échapper à la malédiction des ressources”, France Culture (France), February 18, 2020.

“Surfacturation des importations et marché de change parallèle”, (with N. Meddahi), Tout Sur l’Algérie (Algeria), May 21, 2019

“Financement non-conventionnel : enfumage et petites vengeances”, (with N. Meddahi), Liberté (Algeria), April 18, 2019

“Financement non-conventionnel : Souveraineté et responsabilité”, (with N. Meddahi), Tout sur l’Algérie (Algeria), April 22, 2018.

“2018: l’Algérie à la croisée des chemins”, Fellows (France), issue 34, February 1, 2018. Reprinted in Tout Sur l’Algérie (Algeria), February 1, 2018.

“De la nouvelle économie et sa stagnation séculaire”, Fellows (France), issue 25, May 15, 2017.

“En finir avec le système rentier en Algérie”, La Tribune (France), November 18, 2016.

“Face aux contre-chocs pétroliers : l’emprunt national est une urgence économique”, (with E. Chitour and N. Meddahi), Le Quotidien d’Oran (Algeria), March 29 & 30, 2016.

“De Kinshasa à Cherchell : que faut-il penser des contrats « du siècle » chinois ?”, Maghreb Emergent (Algeria), January 30, 2016.

“Le plan budgétaire des Professeurs Boucekkine et Meddahi face au contre-choc pétrolier”, (with N. Meddahi), Maghreb Emergent (Algeria), October 12, 2015.

“Algérie: en finir avec la voracité? ”, (with N. Meddahi), Telos (France), May 11, 2015

“Algérie : Changeons le pouvoir avant qu’il n’explose”, Le Monde (France), April 17, 2014

“A quelques jours de l’élection présidentielle. De la stabilité de l’économie rentière”, Liberté (Algeria), April 7, 2014.

“Réformes en Algérie : la menace d’un échec prématuré”, Les Echos (France), May 26, 2011.

“Algérie : maladie hollandaise ou arabe ?”, Les Echos (France), April 12, 2011.

“Le procès de la Nouvelle Economie est toujours en cours”, Le Soir (Belgium), July 6th, 2002.