

VICTOR COURT

✉: victor.court@ifpen.fr

🌐: www.ifpenouvelles.com/page/victor-court

IFP School – IFP Énergies nouvelles
Chair Energy & Prosperity

Fields of interest: **economic prosperity, technical change, energy transition, post-growth & ecological sustainability.**

Professional experience

- **Assistant Professor, Center for Energy Economics and Management, IFP School, IFP Énergies nouvelles** (Rueil-Malmaison, France). 2020–
 - Writing a book on the role of energy in the history of human societies.
 - Conducting research on energy efficiency and rebound effects.
 - Developing and teaching courses for the three master's programs of the center.
 - Giving lectures in other postgraduate programs (ESSEC, Université Paris Sciences & Lettres, Université Paris Nanterre).
 - Chief editor of the “IFPEN Economic Papers”.
 - Scientific committee member of the BRGM's "energy transition" strategic axis.
- **Associate Researcher, Axis “Macro-Economical and Societal Challenges”, Chair Energy & Prosperity, Louis Bachelier Institute** (Paris, France). 2018–
 - Conducting research on the Anthropocene concept, degrowth and post-growth.
 - Development of a unified economic growth model considering the role of energy.
 - Construction of a dynamic human population module for integrated assessment models.
- **Associate Researcher, Laboratoire Interdisciplinaire des Énergies de Demain (LIED), Université Paris Cité** (Paris, France). 2022–
- **Research Fellow, Science Policy Research Unit (SPRU), Business School, University of Sussex** (Brighton, UK). 2018–2019
 - Assessment of the net impact of digital technologies on economy-wide energy consumption.
 - Supervision of MSc. students' dissertations (Business School and School of Global Studies).
- **Research Fellow, CERES, École Normale Supérieure** (Paris), and **Chair Energy & Prosperity**. 2017–2018
 - Estimation of different minimum exergy return ratios required for society in relation to aggregate exergy conversion efficiencies.
 - Investigation of the relationship between societal energy control and aggregate technical change in an evolutionary perspective.
- **Postdoctoral Researcher & Teaching Assistant, EconomiX (UMR 7235), Université Paris Nanterre** (Nanterre, France), and **Visiting Researcher, HEC Montréal** (Québec, Canada). 2016–2017
 - Reflections on the relative importance over time of the different deep and proximate

causes of economic growth in the long run.

- Teaching courses in economic policy (2nd year Bachelor, 128 hours, 200 students) and international macroeconomics (1st year Master, 64 hours, 100 students).
- **Doctoral Researcher & Teaching Assistant, EconomiX (UMR 7235), Université Paris Nanterre, IFPEN, and Climat Economics Chair** (Paris, France) 2013–2016
 - Investigation of the role of energy in the economic growth process with a particular emphasis on the Energy-Return-On-Investment (EROI) concept as a measure of the accessibility of energy.
 - Teaching courses in macroeconomics (1st year Bachelor, 64 hours, 100 students).
- **Analyst (intern), Concawe, The oil companies' European association for environment, health and safety in refining and distribution** (Brussels, Belgium) 2013
 - Participation in updating the “Well-To-Wheels Analysis of Future Automotive Fuels and Powertrains in the European Context” developed by Concawe, Eucar, and the JRC.
 - Energy, GHG, and cost balance analysis of the “Directive on the Deployment of Alternative Fuels Infrastructure” proposal of the European Commission.

Education

- **Ph.D. in Economics, Université Paris Nanterre, and IFP Énergies nouvelles.** 2013–2016
 - Under the direction of Professor Pierre-André Jouvét (Université Paris Nanterre) and Professor Frédéric Lantz (IFPEN).
 - Dissertation title: “Energy, EROI, and Economic Growth in a Long-Term Perspective”.
- **MSc. in Energy Economics, Université Paris Saclay.** 2012–2013
 - Core courses: macroeconomic modeling, energy markets and policies, geopolitics of energy.
- **MEng. in Agronomy & Environmental Sciences, AgroParisTech.** 2011–2013
 - Core courses: molecular and cellular biology, thermodynamics, population ecology.
 - Gap year as an intern for a sustainable consulting firm (Factea Durable, Paris, France) and a research centre of Griffith University (Brisbane, Australia).
- **BSc. in Biology, AgroParisTech.** 2009–2011
 - AgroParisTech (*Paris Institute of Technology for Life, Food, and Environmental Sciences*, formerly the *Institut National Agronomique Paris-Grignon*) is the leading French engineering school in agronomy, environment, life sciences, and food technology.

Publications

- **Book:**
 - Court, V. [L'Emballlement du monde. Énergie et domination dans l'histoire des sociétés humaines.](#) Montréal, Écosociété. 2022

- **Peer-reviewed journals:**
 - Delannoy, L. et al. [Emerging consensus on net energy paves the way for improved integrated assessment modeling.](#) *Energy & Environmental Science*, vol. 17, n°1, pp. 11-26. 2024
 - Court, V., & Fizaine, F. [EROI minimum et croissance économique.](#) *Annales des Mines – Responsabilité & Environnement*, n° 111, pp. 74-79. 2023
 - Brockway, P., et al. [Energy efficiency and economy-wide rebound effects: A review of the evidence and its implications.](#) *Renewable and Sustainable Energy Reviews*, vol. 141, 110781. 2021
 - Creutzig, F., et al. [Reviewing the scope and thematic focus of 100,000 publications on energy consumption, services and social aspects of climate change: A big data approach to demand-side mitigation.](#) *Environmental Research Letters*, vol. 16, n°3, 3001.
 - Court, V. [A reassessment of the Great Divergence debate: towards an analytical framework reconciling the interaction of apparently distinct determinants.](#) *European Review of Economic History*, vol. 24, n°4, pp. 633-674. 2020
 - Hook, A., Court, V., Sovacool, B., & Sorrell, S. [A systematic review of the energy and climate impacts of teleworking.](#) *Environmental Research Letters*, vol. 15, n°9, 3003.
 - Court, V., & Sorrell, S. [Digitalization of goods: a systematic literature review of the determinants and magnitude of the impact on energy consumption.](#) *Environmental Research Letters*, vol. 15, n°4, 3001.
 - Court, V., & Mc Isaac, F. [A representation of the world population dynamics for integrated assessments models.](#) *Environmental Modeling & Assessment*, vol. 25, n°5, pp. 611-632.
 - Court, V. [An estimation of different minimum exergy return ratios required for society.](#) *Biophysical Economics and Sustainability*, vol. 4, n°3, 11. 2019
 - Court, V. [Energy capture, technological change, and economic growth: an evolutionary perspective.](#) *Biophysical Economics and Sustainability*, vol. 3, n°3, 12. 2018
 - Court, V., Jouvet, P.-A., & Lantz, F. [Long-term endogenous economic growth and energy transitions.](#) *Energy Journal*, vol. 39, n°1, pp. 29-57.
 - Court, V., & Fizaine, F. [Long-term estimates of the energy-return-on-investment \(EROI\) of coal, oil, and gas global productions.](#) *Ecological Economics*, vol. 138, pp. 145-159. 2017
 - Fizaine, F., & Court, V. [Energy expenditures, economic growth, and the minimum EROI of society.](#) *Energy Policy*, vol. 95, pp. 172-186. 2016
 - Fizaine, F. & Court, V. [Renewable electricity producing technologies and metal depletion: a sensitivity analysis using the EROI.](#) *Ecological Economics*, vol. 110, pp. 106-118. 2015

- **Working papers:**
 - Bovari, E., & Court, V. [Energy, knowledge, and demo-economic development in the long run: a unified growth model.](#) *IFPEN Economic Papers*, n°134. 2020

- **Public media:**
 - Court, V. « [Synergie entre énergies fossiles et décarbonées, frein à la transition énergétique](#) », *Polytechnique Insights*. 2024
 - Court, V. [Earth in the Anthropocene: how did we get here? Can we limit the damage?](#), *The Conversation*. 2023
 - Court, V. [Sortir du capitalisme, condition nécessaire mais non suffisante face à la crise écologique](#), *The Conversation*. 2022
 - Court, V. [L'énergie fossile, cette drogue dont nous n'arrivons pas à nous sevrer](#), *The Conversation*. 2021
 - Court, V. [La demande énergétique mondiale est sous-estimée, et c'est un vrai problème pour le climat](#), *The Conversation*.
 - Lucchese, V. [La transition énergétique n'est-elle qu'un mythe ?](#), reprise de certains propos de ma tribune pour *Reporterre, Usek & Rica*. 2019
 - Nouel, J. [Les heures sombres de la transition énergétique](#), entretien pour *L'Actuariel*, n°29. 2018
 - Court, V. [La dure loi de l'EROI](#), tribune pour *Reporterre, le quotidien de l'écologie*. 2017
 - Court, V. [Le taux de retour énergétique et son rôle dans la transition énergétique](#), entretien pour le *Bulletin Envôle Express*, bimensuel électronique du Conseil Régional de l'Environnement de Montréal (CREMTL).

Grants & honors

- Grant from the French Ministry of National Education, Higher Teaching, and Research. 2013–2016
Funding for living expenses during three-year Ph.D. program. € 70 000.
- Grant from IFP Energies nouvelles. Funding of material and conference expenses during three-year Ph.D. program. € 15 000.
- 7th prize of *Génération Énergies* contest organized by RTE, SIA Partners, and L'Expansion. € 500. 2012

Skills & interests

- **Computer skills:** Microsoft Office Suite (*Word, Excel, PowerPoint*), document preparation (*LaTeX, Beamer*), statistical and econometric analysis (*Eviews, R*), numerical simulation (*Vensim, R*), life cycle assessment (*OpenLCA*), vector graphics (*Inkscape*).
- **Languages:** *French* (native), *English* (bilingual, TOEFL score: 105/120), *Spanish* (intermediate).
- **Stays and trips abroad:** England (1 year), Canada and USA (6 months), Australia (6 months), Belgium (6 months), Turkey (1 month), Thailand (1 month), Laos (1 month), several European countries for a few weeks or days.
- **Sports:** climbing (outdoor and indoor), trekking, running.