

VICTOR COURT

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IFP School (IFPEN Group)
Energy & Prosperity Chair

Fields of interest: **economic development, technical change, energy transition, energy & sustainability.**

Education

- **Ph.D. in Economics, Université Paris Nanterre, and IFPEN.** 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 and Environmental Economics, IFP School, INSTN, and AgroParisTech.** 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.

Professional experience

- **Assistant Professor, Center for Energy Economics and Management, IFP School (Rueil-Malmaison, France) and Energy & Prosperity Chair (Paris, France).** 2020–
 - Research: Writing of a book on the role of energy in the history of human societies.
 - Teaching: Developing and teaching courses for the three master's programs of the department of energy economics and management.
- **Research fellow, Science Policy Research Unit (SPRU), University of Sussex (Brighton, UK), and Energy & Prosperity Chair.** 2018–2019
 - Research: Analysis of the impact of information and communication technologies on economy-wide energy consumption. Development of a unified economic growth model taking into account the role of energy.
 - Teaching: Supervision of MSc. students' dissertations (Business School and School of Global Studies).
- **Research fellow, CERES, École Normale Supérieure (Paris), and Energy & Prosperity Chair.** 2017–2018
 - Population endogenization in the GEMMES macroeconomic model of AFD.

- Estimation of different minimum exergy return ratios required for society in relation to aggregate exergy conversion efficiencies.
- **Postdoctoral researcher & teaching assistant, EconomiX (UMR 7235), Université Paris Nanterre** (Nanterre, France), and **visiting researcher, HEC Montréal** (Québec, Canada). 2016–2017
 - Research: reflections on the relative importance over time of the different deep and proximate causes of economic growth in the long run. Investigation of the relationship between societal energy control and aggregate technological change in an evolutionary perspective.
 - Teaching: Tutorial classes in economic policy, 2nd year Bachelor. 128 hours, 200 students in eight groups. Tutorial classes in international macroeconomics, 1st year Master. 64 hours, 100 students in four groups.
- **Doctoral researcher & teaching assistant, EconomiX (UMR 7235), Université Paris Nanterre, IFPEN, and Chaire Économie du Climat** (Paris, France). 2013–2016
 - Research: 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: tutorial classes in macroeconomics, 1st year Bachelor. 64 hours, 100 students in four groups.
- **Analyst (intern), Concaawe, 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 Concaawe, 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.

Publications

- Peer-reviewed academic journals:
 - Hook, A., **Court, V.**, Sovacool, B., & Sorrell, S. A systematic review of the energy and climate impacts of teleworking. *Environmental Research Letters*, in press. 2020
 - **Court, V.**, & Mc Isaac, F. A representation of the world population dynamics for integrated assessments models. *Environmental Modeling & Assessment*, vol. 25, pp. 611–632.
 - **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(4): 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*, in press (ABS: 3, impact factor: 1.18). 2019
 - **Court, V.** An estimation of different minimum exergy return ratios required for society. *BioPhysical Economics and Resource Quality*, vol. 4(3): 11.
 - **Court, V.** Energy capture, technological change, and economic growth: an evolutionary perspective. *BioPhysical Economics and Resource Quality*, vol. 3(3): 12. 2018
 - **Court, V.**, Jouvét, P.-A., & Lantz, F. Long-term endogenous economic growth and energy transitions. *Energy Journal*, vol. 39(1): 29–57 (ABS: 3, impact factor: 2.46).

- **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 (ABS: 3, impact factor: 4.28). 2017
- Fizaine, F., & **Court, V.** Energy expenditures, economic growth, and the minimum EROI of society. *Energy Policy*, vol. 95, pp. 172–186 (ABS: 2, impact factor: 4.88). 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 (ABS: 3, impact factor: 4.28). 2015
- Public media (in French):
 - « La transition énergétique n'est-elle qu'un mythe ? », propos de ma tribune pour *Reporterre* repris par Vincent Lucchese, publiés dans *Usek & Rica*. 2019
 - « Les heures sombres de la transition énergétique », propos recueillis par Juliette Nouel, publiés dans *l'Actuariel*. 2018
 - « La dure loi de l'EROI », tribune pour *Reporterre, le quotidien de l'écologie*. 2017
 - « Le taux de retour énergétique et son rôle dans la transition énergétique », entrevue pour le *Bulletin Envôile Express*, bimensuel électronique du Conseil Régional de l'Environnement de Montréal (CREMTL).

Works in progress

- Research articles:
 - Bovari, E., & **Court, V.** Energy, knowledge, and demo-economic development in the long run: a unified growth model. Under revision at the *Journal of Economic Growth*.
 - Brockway, P., Semeniuk, G, Sorrell, S., Heun, M., & **Court, V.** Energy efficiency improvements and large economy-wide rebound: evidence and implications for the Paris Agreement. Under revision at *Renewable & Sustainable Energy Reviews*.

Academic conferences

- 24th EAERE Annual Conference, 26–29 June, Manchester, United Kingdom. 2019
- 18th World Economic History Congress, July 29–August 3, Boston, USA. 2018
- 6th International Symposium on Environment and Energy Finance Issues, 24–25 May, Paris, France.
- 3rd International Exergy Economics Workshop, 14–15 May, Lisbon, Portugal.
- 39th IAEE International Conference, June 19–22, Bergen, Norway. 2016
- 3rd Science for Energy Scenarios, March 6–11, Les Houches, France.
- 5th IAFOR Asian Conference on Sustainability, Energy, and the Environment, June 11–14, Kobe, Japan. 2015
- 1st FAERE Annual Conference, September 11–12, Montpellier, France. 2014

Invited talks, workshops & research seminars

- Mercator Research Institute on Global Commons and Climate Change's workshop on systematic reviews in the social sciences for climate change assessments, October 15-17, Berlin, DE. 2018
- BIEE's Oxford Research Conference, September 18–19, Oxford, UK.

- CEE-M (ex LAMETA) Research Seminar, 20 December, Montpellier, France. 2017
- LIED Research Seminar, 19 September, Paris, France.
- Workshop on EROI or the UK Department for Business, Energy, and Industrial Strategy, 30 June, London, England.
- HEC Montreal Energy Seminar, February 28, Montreal, Canada.
- Conference of the X-Environment Association, December 12, Paris, France. 2016
- European Nuclear Young Generation Forum, June 24, Paris, France. 2015

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 the *Génération Energies* contest organized by RTE, SIA Partners, and L'Expansion. 2012
€500.

References

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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 level.
- **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, surfing, swimming, running.
- **Charity:** in 2018, voluntary teaching of French and mathematics to young refugees in Paris.