

VICTOR COURT

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SPRU, University of Sussex
Chair Energy & Prosperity

Fields of interest: **long-run economic growth, comparative development, energy transitions, 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

- **Research fellow, *Science Policy Research Unit (SPRU), University of Sussex* (Brighton, UK), and *Chair Energy & Prosperity* (Paris, France).** 2018–
 - Analysis of the impact of information and communication technologies (ICTs) on economy-wide energy consumption.
 - Development of a unified growth model taking into account the role of energy.
- **Research fellow, *CERES, École Normale Supérieure* (Paris), and *Chair Energy & Prosperity.*** 2017–2018 (1 year)
 - Population endogenization in the GEMMES macroeconomic model of AFD.
 - Estimation of 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 (1 year)
 - Research: reflections on the relative importance over time of the different deep-rooted 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, IFP Energies Nouvelles, and Chaire Economie du Climat.*** 2013–2016
(3 years)
 - 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), *Concawe, The oil companies' European association for environment, health and safety in refining and distribution*** (Brussels, Belgium). 2013
(6 months)
 - 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.
- **Research intern, *Atmospheric Environment Research Centre, Griffith University*** (Brisbane, Australia). 2012
(6 months)
 - Life Cycle Analysis (LCA) of three waste-to-energy solutions to use the solid olive waste produced by the Australian olive oil industry.
 - Modeling and calculation of environmental impacts made with OpenLCA software.
- **Consultant (intern), *Factea Durable*** (Boulogne-Billancourt, France). 2011
(6 months)
 - Consulting missions to assist the implementation of sustainable procurement.
 - Drafting of commercial proposals in response to call for tenders.

Publications

- Peer-reviewed academic journals:
 - **Court, V.** Energy capture, technological change, and economic growth: an evolutionary perspective. *BioPhysical Economics and Resource Quality*, 3(3): 12. 2018
 - **Court, V.**, Jouvét, P.-A., & Lantz, F. Long-term endogenous economic growth and energy transitions. *Energy Journal*, 39(1): 29–57 (ABS: 3, impact factor: 2.43).
 - **Court, V.**, & Fizaine, F. Long-term estimates of the energy-return-on-investment (EROI) of coal, oil, and gas global productions. *Ecological Economics*, 138: 145–159 (ABS: 3, impact factor: 2.96). 2017
 - Fizaine, F., & **Court, V.** Energy expenditures, economic growth, and the minimum EROI of society. *Energy Policy*, 95: 172–186 (ABS: 2, impact factor: 4.14). 2016
 - Fizaine, F. & **Court, V.** Renewable electricity producing technologies and metal depletion: a sensitivity analysis using the EROI. *Ecological Economics*, 110: 106–118 (ABS: 3, impact factor: 2.96). 2015

- Press (in French):
 - **Court, V.** Le taux de retour énergétique et son rôle dans la transition énergétique. 2017
Entrevue pour le *Bulletin Envôle Express*, bimensuel électronique du Conseil Régional de l'Environnement de Montréal (CREMTL).
 - **Court, V.** La dure loi de l'EROI. Tribune pour *Reporterre, le quotidien de l'écologie*.

Working papers and works in progress

- Working papers:
 - **Court, V.** A reassessment of the Great Divergence debate: towards an analytical framework reconciling the interaction of apparently distinct determinants. *Chair Energy & Prosperity Working Paper*, 19 December. 2018
 - **Court, V.** An estimation of different minimum exergy return ratios required for society. *Chair Energy & Prosperity Working Paper*, 09 December.
 - **Court, V., & Mc Isaac, F.** A simple phenomenological model of the world demographic dynamics. *Chair Energy & Prosperity Working Paper*, 19 November.
- Works in progress:
 - Bovari, E., & **Court, V.** Energy, knowledge, and demo-economic development in the long run: a unified growth model.
 - **Court, V., Sorrell, S., & Drabik, E.** Determinants of the indirect impact of ICTs on energy consumption: a systematic literature review.

Academic conferences

- 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.
- 67th Annual Meeting of the French Economic Association, 14–16 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. €80,000.
- Grant from IFP Energies Nouvelles. Funding of material and conference expenses during three-year Ph.D. program. €18,000.
- 7th prize of the *Génération Energies* contest organized by RTE, SIA Partners, and L'Expansion. 2012
€500.

References

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| <ul style="list-style-type: none"> • Pierre-André Jouvét, Ph.D. EconomiX, Université Paris Nanterre. 200 av. de la République, 92001 Nanterre, France. pajouvet@u-plum.fr +33 6 98 45 62 69. | <ul style="list-style-type: none"> • Gaël Giraud, Ph.D. Agence Française de Développement. 5, Rue Roland Barthes 75012 Paris, France. giraudg@afd.fr +33 1 53 44 37 43. | <ul style="list-style-type: none"> • Pierre-Olivier Pineau, Ph.D. HEC Montréal. 3000 chemin de la Côte Sainte-Catherine, Montréal H3T 2A7, Canada. pierre-olivier.pineau@hec.ca +1 514 340 6922. |
| <ul style="list-style-type: none"> • Alain Ayong le Kama, Ph.D. EconomiX, Université Paris Nanterre. 200 av. de la République, 92001 Nanterre, France. aayonglekama@u-paris10.fr +33 1 40 97 71 24. | <ul style="list-style-type: none"> • Frédéric Lantz, Ph.D. IFP School, academic supervisor of Master EET-EDDEE. 232 av. Napoléon Bonaparte, 92852 Rueil-Malmaison, France. frederic.lantz@ifp.fr +33 1 47 52 64 25. | <ul style="list-style-type: none"> • Roger Fouquet, Ph.D. London School of Economics and Political Science. Houghton Street, London, WC2A 2AE, UK r.fouquet@lse.ac.uk +44 (020) 7955 7368. |

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:* fluent, (TOEFL score: 105/120). *Spanish:* intermediate level.
- **Travels:** Canada and USA (6 months), Australia (6 months), Belgium (6 months), Thailand (1 month), Laos (1 month), several European countries for a few weeks or days.
- **Sports:** climbing, swimming, running.
- **Charity:** voluntary teaching of French and mathematics to young refugees in Paris.