

## Victor Court

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Date of birth: 19th May 1989

Nationality: French

Professional website (publications, Ph.D. thesis, data, teaching materials): [www.victor-court.com](http://www.victor-court.com)

Research topics of interest: **Unified Growth Theory, Great Divergence, energy transitions, energy & sustainability.**

## Education

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- **Ph.D. in Economics, *Université Paris Nanterre.*** 2013–2016  
Title of the thesis: “Energy, EROI, and Economic Growth in a Long-Term Perspective”.
- **MSc. in Energy and Environmental Economics, *IFP School, INSTN, and AgroParisTech.*** 2012–2013  
Elective courses: macroeconomic modeling, energy markets and policies, Geopolitics of energy.
- **MSc. in Natural & Environmental Sciences, *AgroParisTech.*** 2011–2013  
Elective courses: molecular and cellular biology, thermodynamics, population ecology.
- **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

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- **Research fellow, *Chair Energy & Prosperity* and *CERES, École Normale Supérieure (Paris)*** 2017–2018
  - Population endogenization in the GEMMES macroeconomic model.
  - Assessment of actual historical (1960–2012) total factor productivities and labor productivities of six countries (UK, USA, Austria, Portugal, Mexico, and China) after taking into account useful exergy as a factor of production.
  - Development of a unified growth model taking into account the role of exergy.
- **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-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 different groups. Tutorial classes in international macroeconomics, 1st year Master. 64 hours, 100 students in four different groups.

- **Doctoral researcher & teaching assistant, *EconomiX (UMR 7235), Université Paris Nanterre, IFP Energies Nouvelles, and Chaire Economie du Climat.*** 2013–2016
  - Research: investigate the role of energy in the economic growth process. 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 different groups.
  
- **Research 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.

## Publications

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- Peer-reviewed academic journals:
  - **Court, V., Jouvét, P.-A., & Lantz, F.** Long-term endogenous economic growth and energy transitions. *Energy Journal*, 39(1), 29–57 (CNRS: 1, HCERES: A, Impact factor: 2.43). 2018
  - **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 (CNRS: 1, HCERES: A, Impact factor: 2.96). 2017
  - **Fizaine, F., & Court, V.** Energy expenditures, economic growth, and the minimum EROI of society. *Energy Policy*, 95, 172–186 (CNRS: 2, HCERES: A, 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 (CNRS: 1, HCERES: A, Impact factor: 2.96). 2015
  
- Press (in French):
  - **Court, V.** 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). 2017
  - **Court, V.** La dure loi de l'EROI. Tribune pour *Reporterre, le quotidien de l'écologie*.

## Working papers and works in progress

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- **Court, V.** The occurrence and persistence of the Great Divergence: historians vs. economists' perspectives on growth. *Chair Energy & Prosperity Working Paper*, September 2017 (under revision at the *Journal of Economic Surveys*; CNRS: 2, HCERES: A, Impact factor: 2.1)
- **Court, V.** Energy capture, technological change, and economic growth: an evolutionary perspective. *Chair Energy & Prosperity Working Paper*, October 2017 (under revision at the *Journal of Evolutionary Economics*; CNRS: 2, HCERES: A, Impact factor: 0.86).
- **Court, V.** Minimum E(x)ROI required for society: definitions and estimates in relation to en(x)ergy conversion efficiencies (in progress, target journal: *Ecological Economics*, CNRS: 1, HCERES: A, Impact factor : 2.43).

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- **Court, V.**, & Bovari, E. Energy, knowledge and demo-economic development in the long run: a unified growth model (in progress, target journal: *Review of Economic Studies*, CNRS: 1, HCERES: A, Impact factor: 4.03).
  - **Court, V.**, & Nguyen-Huu, A. There is no “Manna from Heaven”: long-run TFP disappearance once exergy is taken into account (in progress, target journal: *European Economic Review*, CNRS: 1, HCERES: A, Impact factor: 1.26).
  - Mc Isaac, F., & **Court, V.** A simple phenomenological model of the world demographic dynamics (in progress, target journal: *Demography*, CNRS: 1, HCERES: A, Impact factor: 2.80).

### Academic conferences

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- 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.
- 39<sup>th</sup> IAEE International Conference, June 19–22, Bergen, Norway. 2016
- 3<sup>rd</sup> Science for Energy Scenarios, March 6–11, Les Houches, France.
- 5<sup>th</sup> IAFOR Asian Conference on Sustainability, Energy, and the Environment, June 11–14, Kobe, Japan. 2015
- 1<sup>st</sup> FAERE Annual Conference, September 11–12, Montpellier, France. 2014

### Scientific talks

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- 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

### Award & Honors

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- Grant from the French Ministry of National Education, Higher Teaching, and Research. Funding for living expenses during three-year Ph.D. program. **80,000€**. 2013–2016
- 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. **500€**. 2012

## References

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- Pierre-André Jouvét, Ph.D.  
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- Frédéric Lantz, Ph.D.  
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- Pierre-Olivier Pineau, Ph.D.  
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## Others

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- **Computer skills:** office pack (*Word, Excel, PowerPoint*), document preparation (*LaTeX, Beamer*), statistical and econometrical 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.