

# Joëlle NOAILLY

## PERSONAL DATA

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## WORK EXPERIENCE

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APR 2015 - CURRENT	Head of Research - Centre for International Environmental Studies Lecturer in Economics - Department of International Economics <i>Graduate Institute, Geneva</i>
APR 2013 - MAR 2015	Research Fellow - CIES Program Lead INNOVATION, SUSTAINABLE GROWTH AND TECHNOLOGICAL CHANGE <i>Graduate Institute, Geneva</i>
SEP 2008 - MAR 2013	Senior Researcher <i>Program Climate, Energy and Environment - Sector International Economics</i> <i>CPB Netherlands Bureau for Economic Policy Analysis, The Hague</i> Visiting Fellow at CIES, Graduate Institute, Geneva, Apr 2012-Mar 2013.
JUN 2005 - AUG 2008	Researcher <i>Sector Competition and Regulation</i> <i>CPB Netherlands Bureau for Economic Policy Analysis, The Hague</i>
SEP 2003 - MAY 2005	Young Professional <i>CPB Netherlands Bureau for Economic Policy Analysis, The Hague</i>

## EDUCATION

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OCT 2003 Ph.D in ENVIRONMENTAL ECONOMICS, **Free University of Amsterdam**, Amsterdam, Netherlands  
| Ph.D Thesis: "Co-evolutionary modelling for sustainable development"  
Advisors: Prof. Cees WITHAGEN and Prof. Jeroen VAN DEN BERGH

JUNE 2000 M.Phil in ECONOMICS, **Tinbergen Institute Graduate School**, Amsterdam, Netherlands

MAY 1999 M.Sc. in ENVIRONMENTAL ECONOMICS, **University of Delaware**, Newark, USA

JULY 1997 Undergraduate degree "Maîtrise" in INTERNATIONAL ECONOMICS  
**University Lumière, Lyon, France**, with Honors

## TEACHING

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- 2016-2017 ENVIRONMENTAL ECONOMICS AND POLICY, MINT, Graduate Institute.  
INTERNATIONAL ENVIRONMENTAL ECONOMICS AND POLICY, M.A. Econ, Graduate Institute.  
ADVANCED RESOURCE ECONOMICS A, Ph.D. Econ, Graduate Institute.  
TRADE AND THE ENVIRONMENT, Summer Programme, Graduate Institute.
- 2014-2015 INTERNATIONAL ENVIRONMENTAL ECONOMICS AND POLICY, M.A., Graduate Institute.  
DOCTORAL SEMINARS IN RESOURCE ECONOMICS, Ph.D., Graduate Institute.
- 2013 TRADE, THE ENVIRONMENT AND SOCIAL ISSUES, Executive Education, Graduate Institute
- 2008, 2009 Guest lectures in ENVIRONMENTAL ECONOMICS, MSc., University of Wageningen.
- 1998 Teaching assistant in PUBLIC FINANCE, B.A., University of Delaware.

## SUPERVISION

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- PhD examiner Marit Elisabeth Klemetsen (University of Oslo, June 2016)
- PhD theses Jules-Daniel Wurlod (co-supervision with T. Swanson, November 2015)
- Master theses Carlotta Nani (MIE, 2017), Kuhu Joshi (MIE, 2017)  
Corinne Grassle (MINT, 2016), Kritika Saxena (MIE, 2016)  
Eirik Lindjeberg (MINT, 2015), David Ryfisch (MIE, 2014)

## RESEARCH GRANTS

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- NRP73 'Sustainable Economy', Swiss National Science Foundation, 2018-2022, *Financing investments in clean technologies*, (715,000 CHF), main applicant (with G. de Rassenfosse, EPFL)
- Swiss Federal Office of Energy Research Grant, 2014-2016, *The impact of innovation on sectoral energy intensity in Switzerland* (90,000 CHF), main applicant and project leader (with J. Wurlod)
- Sinergia grant, Swiss National Science Foundation, 2014-2016, *Innovation, Diffusion and Green Growth* (1,500,000 CHF), subproject leader (with T. Swanson)
- Swiss Network for International Studies, 2014-2016 *Diffusion of low-cost energy technologies to developing countries* (200,000 CHF), co-applicant and project leader (with L. Andonova)
- Marie-Curie Intra-European Fellowship, European Commission, 2013-2015, main applicant *GREENSPILL project* (250,000 EUR)
- Marie Heim Fellowship, Swiss National Science Foundation, 2013-2015 (200,000 CHF), declined.

## MEMBERSHIPS AND OTHER ACTIVITIES

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- Member of the European Association of Environmental and Resource Economics (EAERE)
- Member of the European Economic Association (EEA)

- Member of Programme Committee for EAERE Annual Conferences (2009-2017)
- Scientific Expert for Swiss Science Foundation (2016), French National Research Agency (2014)
- Member of Research Committee on Technology and Innovation, Green Growth Knowledge Platform (since 2013)
- Member of Research Committee on Trade and Competitiveness, Green Growth Knowledge Platform (since 2017)
- Member of Scientific Evaluation Committee GGKP Conferences (2015-2016)
- Referee for *Journal of Environmental Economics and Management*, *Nature Energy*, *Environmental and Resource Economics*, *Research Policy*, *Energy Policy*, *Energy Economics*, *Ecological Economics*, *Journal of Evolutionary Economics*.

## PUBLICATIONS

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Full list of publications: <http://joellenoailly.com/publications/>

### Journal articles

- Sarr, M. and J. Noailly (2017) Innovation, diffusion, growth and the environment: Taking stock and charting new directions, *Environmental and Resource Economics*, 66(3), pp. 393-407. Co-editor of Special Issue on 'Innovation, diffusion and green growth' with M. Sarr, T. Swanson and L. Bretschger.
- Noailly, J. and V. Shestalova, (2017) Knowledge spillovers from renewable energy technologies: Lessons from patent citations, *Environmental Innovation and Societal Transitions*, 22(3), pp. 1-14.
- Noailly, J. (2016) Research funding: Patience is a virtue, *Nature Energy*, News, April, Vol 1.
- Noailly, J. and R. Smeets (2015) Directing technical change from fossil-fuel to renewable energy innovations: An empirical investigation using patent data, *Journal of Environmental Economics and Management*, 72(C), pp. 15-37.
- Noailly, J. and D. Ryfish (2015) Multinational firms and the internationalization of green R&D: A review of the evidence and policy implications, *Energy Policy*, 83(C), pp. 218-228.
- Noailly, J. (2012) Improving the energy efficiency of buildings: The impact of environmental policy on technological innovation, *Energy Economics*, 34, pp. 795-806.
- Noailly, J., S. Vujic and A. Aouragh (2012) The effects of competition on the quality of primary schools in the Netherlands, *Environment and Planning A*, 44(9), pp. 2153-2170.
- Noailly, J. and S. Batrakova (2010) Stimulating energy-efficient innovations in the Dutch building sector: Empirical evidence from patent counts and policy lessons, *Energy Policy*, 38, pp. 7803-7817.
- Noailly, J., D. Webbink and B. Jacobs (2011) Should the government subsidize enrolment in science and engineering studies? *Applied Economics Letters*, 18(4), pp. 371 - 375.
- Noailly, J. and R. Nahuis (2010) Entry and competition in the Dutch notary profession, *International Review of Law and Economics*, 30(2), pp. 178-185.
- Noailly, J., J.C.J.M. van den Bergh and C.A. Withagen (2009) Local and global interactions in an evolutionary resource game, *Computational Economics*, 33(2), pp. 155-173.
- Noailly, J. and S. Visser (2009) The impact of market forces in childcare provision: Insights from the 2005 Childcare Act in the Netherlands, *Journal of Social Policy*, 38(3), pp. 477-498.

- Noailly, J. (2007) Coevolution of economic and ecological systems: An application to pesticide resistance in agriculture. *Journal of Evolutionary Economics*, (17)5, pp. 1-29.
- Noailly, J., C.A. Withagen, and J.C.J.M van den Bergh (2007) Spatial evolution of social norms in a common-pool resource game. *Environmental and Resource Economics*, 36, pp. 113-141.
- Parsons, G. and J. Noailly (2004). A value capture property tax for financing beach nourishment projects: an application to Delaware's ocean beaches. *Ocean and Coastal Management*, 47, pp. 49-61.
- Noailly, J., J.C.J.M. van den Bergh and C.A. Withagen (2003) Evolution of harvesting strategies: replicator and resource dynamics. *Journal of Evolutionary Economics*, 13, pp. 183-200.

## Books and books chapters

- Noailly, J. (2008) Deregulation and quality of professional services: An economic and empirical perspective, In: *Professions under pressure*, Nicolle Zagers and Herman Boring (eds), The Hague, Boom Juridisch Uitgevers, pp.79-98.
- Noailly, J., C.A. Withagen and J.C.J.M. van den Bergh (2007) Spatial evolution of social norms in a common-pool resource game. In: *Sustainable resource use and economic dynamics*, L. Brestscher and S. Smulders (editors), Springer, Dordrecht, The Netherlands, pp.191-216.
- Noailly, J. (2003) Co-evolutionary modelling for sustainable economic development. Ph.D Thesis, Tinbergen Research Series.

## Working papers and other publications

- Noailly, J. and R. Smeets (2016) Financing energy innovation: The role of financing constraints for directed technical change from fossil-fuel to renewable innovation. EIB Working papers 06/2016, European Investment Bank, Luxembourg.
- Wurlod, J-D. and J. Noailly (2016) The impact of green innovation on energy intensity: An empirical analysis for 14 industrial sectors in OECD countries, CIES Research Paper no. 42 and Report for the Swiss Federal Office of Energy no 291154.
- Noailly, J. and D. Ryfish (2014) Multinational firms and the internationalization of green R&D: A review of the evidence and policy implications, CIES Research Paper no 33.
- Noailly, J. and V. Shestalova, (2013) Knowledge Spillovers from Renewable energy Technologies, Lessons from patent citations, CIES Research Paper no. 22.
- Noailly, J. (2010) Improving the energy efficiency of buildings: The impact of environmental policy on technological innovation, CPB Discussion Paper 137, The Hague.
- Noailly, J., S. Batrakova and R. Lukach (2010) Home green home – A case study of policies inducing energy-efficient innovations in the Dutch building sector, CPB Document 198, The Hague.
- Noailly, J., S. Vujic and A. Aouragh (2009) Competition and quality in Dutch primary schools, CPB Discussion Paper 120, The Hague.
- Koning, P.W.C, J. Noailly and S. Visser (2007) Do non-profits make a difference? Evaluating non-profit vis-à-vis for-profit organisations in social services. CPB Document 142, The Hague.
- Noailly, J., S. Visser and P. Grout (2007) The impact of market forces on the provision of childcare: Insights from the 2005 Childcare Act in the Netherlands, CPB Memorandum 176, The Hague.

- Nahuis R. and J. Noailly (2005) Competition and quality in the notary profession, CPB Document 94.
- Noailly, J., M. Rensman, D. Waagmeester and D. Webbink (2005) Shortages of science and engineering students in the Netherlands, CPB Document 92, The Hague.
- Canton, E., D. Lanser, J. Noailly, M. Rensman and J. van de Ven (2005) Crossing Borders: When science meets industry, CPB Document 98, The Hague.

## ORGANISATION OF SCIENTIFIC MEETINGS AND CONFERENCES

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- 2016 Co-organizer of workshop 'Incentivizing the Grand Challenges', Graduate Institute  
Co-organizer of SNIS Workshop 'Climate Policy Innovation', Graduate Institute  
Guest-editor of Special Issue on 'Innovation, Diffusion, Growth and the Environment' in *Environmental and Resource Economics*
- 2015 Co-organizer of side-event at OECD Green Growth and Sustainable Development Forum  
Co-organizer of the conference 'Economics of innovation, diffusion, growth and the environment', London School of Economics
- 2013-2015 Organizer of Advanced Seminar Series in Environmental and Resource Economics, Graduate Institute
- 2009 Organizer of Special Session on 'Environmental policy and technological change', Annual Meeting EAERE, VU Amsterdam

## INVITED SEMINARS AND CONFERENCE PRESENTATIONS

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- 2017 European Economic Association Meeting, Lisbon  
European Association of Environmental Economics (EAERE), Athens  
Workshop on Global Innovation Patterns in the Mining Industries, WIPO, Geneva  
International Symposium on Environment and Energy Finance Issues, IPAG, Paris  
Expert Workshop on Environmental Policy Data and Competitiveness, GGKP, Geneva
- 2016 Research Seminar on Environment, Resource and Climate Economics, RWI, Berlin  
Workshop on Corporate Finance Alternatives in Europe, European Investment Bank, Luxembourg
- 2015 Conference 'Economics of innovation, diffusion, growth and the environment' London School of Economics  
Conference 'Our Common Future under Climate Change', Paris
- 2014 OFCE, Sciences-Po/SKEMA, Nice  
World Congress of Environmental and Resource Economics, WCERE, Istanbul  
Summer School on Empirical Research Methods, St Gallen  
International Academic Symposium on 'R&D on Energy', University of Barcelona
- 2013 University of Bath (invited seminar)  
Swiss Society of Economics and Statistics Meeting, Neuchatel  
Royal Economic Society (RES) Annual Conference, London
- 2012 European Association of Environmental Economics (EAERE), Prague  
SEEK Conference on 'The Green Growth Challenge', Mannheim (invited speaker)

Swiss Federal Office of Energy, Bern

- 2011 International Workshop on 'Innovation and Energy Technologies', FEEM, Venice
- 2010 World Congress of Environmental and Resource Economics, WCERE, Montreal  
European Economic Association (EEA) Meeting, Glasgow
- 2009 OECD Global forum on environment and eco-innovation, Paris  
European Association of Environmental Economics (EAERE), Amsterdam  
(organization of special session on 'Environmental policy and technological change')
- 2008 DIME Workshop on Innovation, Sustainability and Policy, Bordeaux
- 2007 European Meeting on Evolutionary Economics, Manchester
- 2006 Royal Economic Society (RES) Annual Conference, Nottingham  
Competition Workshop on 'Regulation of Professional Services', The Hague  
World Congress of Environmental and Resource Economics, WCERE, Kyoto
- 2005 European Association for Research in Industrial Economics (EARIE) Conference, Porto  
International Industrial Organization Conference, Atlanta
- 2004 World Congress of Game Theory, Marseille
- 2002 World Congress of Environmental and Resource Economists, Monterey  
International Conference of the Society for Computational Economics, Yale  
Workshop on Economics with Heterogeneous Interacting Agents, Maastricht
- 2001 Workshop on Multi-Agent Systems for Natural Resources Management, Wageningen  
Summer School in Economic Theory - Environmental and Resource Economics, Jerusalem
- 2000 Doctoral Training Program on the Economics of Technological Change (DRUID-DIME), Strasbourg

## **PARTICIPATION IN POLICY PANELS AND OTHER MEDIA ACTIVITIES**

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- 2017 SNF Horizons Magazine. 'Sustainability is a distant dream.'  
GGKP Insights Blog. 'How to unlock finance towards small cleantech firms?'
- 2016 Public Forum on 'Incentivizing the Grand Challenges', Graduate Institute, Geneva
- 2015 GGKP Insights Blog. 'Small firms, big impact.'  
GGKP Insights Blog. 'Why General Motors is developing new electric vehicles in China'  
Le Temps. 'Un accord, et maintenant?'  
Geneva Energy Conversation, Graduate Institute, Geneva  
OECD Green Growth and Sustainable Development Forum, Paris
- 2014 Geneva Energy Conversation, Graduate Institute, Geneva
- 2009 OECD Global forum on Environment and Eco-innovation, Paris
- 2008 Roundtable Dutch Parliament on Competition and Regulation
- 2007 OECD Working Party on Competition and Regulation, Paris