

Joëlle NOAILLY

PERSONAL DATA

ADDRESS: Centre for International Environmental Studies (CIES)
Graduate Institute of International and Development Studies
PO Box , Geneva 21, Switzerland

PHONE: +41(0)22 908 6222

EMAIL: joelle.noailly@graduateinstitute.ch

WEB: www.graduateinstitute.ch/academic-departments/faculty/joelle-noailly

TWITTER: @JoelleNoailly

OTHER: French citizenship, 2 children (maternity leave in 2007 and 2010)

CURRENT POSITION

APR 2015 - CURRENT	Head of Research - Centre for International Environmental Studies (CIES) Lecturer in Economics - Department of International Economics <i>Graduate Institute, Geneva</i>
JANUARY 2020 - CURRENT	Associate Professor (part-time), Department of Spatial Economics, School of Business and Economics <i>Vrije Universiteit Amsterdam, The Netherlands</i> Research Fellow, <i>Tinbergen Institute, The Netherlands</i>

TEACHING

2019-2022 ENVIRONMENTAL ECONOMICS, STREEM Master in Economics, Vrije Universiteit Amsterdam

2017-2019 ENVIRONMENTAL ECONOMICS AND POLICY, MINT, Graduate Institute.
TOPICS IN RESOURCE AND DEVELOPMENT, Ph.D. Econ, Graduate Institute.

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.

2014-2015 INTERNATIONAL ENVIRONMENTAL ECONOMICS AND POLICY, M.A., Graduate Institute.
DOCTORAL SEMINARS IN RESOURCE ECONOMICS, Ph.D., Graduate Institute.

Executive education teaching: Innovation for Grand Challenges, Graduate Institute Geneva and EPFL, (2021-2022); Environmental Governance Program (2022); Trade and the Environment and Social Issues (2013, 2015-2016)

EDUCATION

- OCT 2003 Ph.D in ENVIRONMENTAL ECONOMICS, **VU 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

RESEARCH GRANTS

- NRP73 ‘Sustainable Economy’, Swiss National Science Foundation, 2018-2021, *Financing investments in clean technologies*, (715,000 CHF), co-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
- Swiss Network for International Studies, 2014-2016 *Diffusion of low-cost energy technologies to developing countries* (200,000 CHF), co-applicant with L. Andonova
- Marie-Curie Intra-European Fellowship, European Commission, 2013-2015, main applicant *GREENSPILL project* (250,000 EUR)
- Marie Heim Fellowship for women in academics, Swiss National Science Foundation, 2013-2015 (200,000 CHF), main applicant (awarded, declined for Marie-Curie Fellowship).

PAST POSITIONS

- APR 2013 - MAR 2015 | EU Marie-Curie Research Fellow
CIES Program Lead “Innovation, Sustainable Growth and Technological Change”
Graduate Institute, Geneva
- SEP 2008 - MAR 2013 | Senior Researcher
Program Climate, Energy and Environment - Sector International Economics
CPB Netherlands Bureau for Economic Policy Analysis, The Hague
Visiting Fellow at CIES, Graduate Institute, Geneva, Apr 2012-Mar 2013.
- JUN 2005 - AUG 2008 | Researcher
Sector Competition and Regulation
CPB Netherlands Bureau for Economic Policy Analysis, The Hague
- SEP 2003 - MAY 2005 | Young Professional
CPB Netherlands Bureau for Economic Policy Analysis, The Hague

SUPERVISION

PhD theses	Laura Nowzohour (co-supervision with C. Tille, 2018-)
PhD examiner	Helena Ting (Graduate Institute Geneva, November 2020) Marit Elisabeth Klemetsen (University of Oslo, June 2016)
MPhil examiner	Antonia Kurz (Tinbergen Institute Amsterdam, August 2021)
Master theses	Viktoria Venelinova (IHEID-MINT 2021), Simran Sinha (IHEID-MINT 2021) Sarah Schoch (IHEID-MINT 2021), Maxime Zufferey (IHEID-MINT 2021) Josefina Holze (IHEID-MIS, 2021), Boris van der Tweel (VU-STREEM 2021) Ferk de Kroon (VU-STREEM, 2021), Julius Verster (VU-STREEM 2020) Henri Gruhl (VU-STREEM 2020), Danice Jonker (VU-STREEM 2020) Till Fust (IHEID- MIS 2020), Bulgan Luuzandamba (IHEID-MINT 2020) Dario Siegen (IHEID-MINT 2020), Bettina Kast (IHEID-MINT 2020) Eva Bortolotti (IHEID-MINT 2020), Mihnea-George Filip (IHEID-MINT 2020) Vishva Subramaniam (IHEID-MINT 2019), Lai Man Lak (IHEID-MINT 2019) Maxwell Andersen (IHEID-MIS, 2018), Carlotta Nani (IHEID-MIS, 2017) Kuhu Joshi (IHEID-MIS, 2017), Corinne Grassle (IHEID-MINT, 2016) Kritika Saxena (IHEID-MIS, 2016), Eirik Lindjeberg (IHEID-MINT, 2015)

Internship and job placements at OECD (Directorate for Environment, Directorate for Science, Technology and Innovation), WTO (Trade and Environment Division), WIPO (Department for Economics and Data Analytics), UNEP, WBCSD, WWF.

EDITORIAL AND CONFERENCE DUTIES

- Co-Editor of *Environmental and Resource Economics*, journal of the European Association of Environmental and Resource Economists (EAERE) (since August 2020, handling about 25 manuscripts per year)
- Member of Programme Committee for EAERE Annual Conferences (since 2009)
- Referee for *Journal of Environmental Economics and Management*, *Environmental and Resource Economics*, *Nature Energy*, *Energy Economics*, *Resource and Energy Economics*, *Environment and Development Economics*, *Scandinavian Journal of Economics*, *European Journal of Finance*, *Research Policy*, *Energy Policy*, *Ecological Economics*, *Journal of Evolutionary Economics*.
- Guest-editor of Special Issue on 'Innovation, Diffusion, Growth and the Environment' in *Environmental and Resource Economics* (2017)
- Co-organizer of CIES interdisciplinary seminars (since 2015), Graduate Institute
- Organizer of annual workshops 'Financing cleantech' (2018-2020), Graduate Institute
- Co-organizer of workshop 'Incentivizing the Grand Challenges' (2017), Graduate Institute
- Co-organizer of SNIS Workshop 'Climate Policy Innovation' (2017), Graduate Institute
- Member of Scientific Evaluation Committee GGKP Conferences (2015-2016)
- Co-organizer of conference 'Economics of innovation, diffusion, growth and the environment' (2015), London School of Economics.
- Organizer of Advanced Seminar Series in Environmental and Resource Economics (2013-2015), Graduate Institute

- Organizer of Special Session on 'Environmental policy and technological change' (2009), Annual Meeting EAERE, VU Amsterdam

AWARDS, MEMBERSHIPS, COMMITTEES AND CONSULTANCY

- Subaward *Economics of Innovation in the Energy Sector*, 2020, \$2,500, NBER, MIT, Boston
- Member of the European Association of Environmental and Resource Economics (EAERE)
- Member of the European Economic Association (EEA)
- Member of Energy Commission of the Swiss Academy of Sciences
- Member of RWI Research Network (Essen and Berlin)
- Member of Academia.net - network for women in academics (on nomination)
- Member of Research Committee on Trade and Competitiveness, Green Growth Knowledge Platform
- Member of Research Committee on Technology and Innovation, Green Growth Knowledge Platform
- Scientific expert, WIPO, World Intellectual Property Report 2021
- Scientific Committee Member for OECD project on 'Sustainable transition instruments for the Dutch industry' (2020-2021)
- Consultant for the European Investment Bank on 'Financing constraints in energy innovation' (2016)
- Scientific Expert for Swiss National Science Foundation (2016) and French National Research Agency (2014)

PUBLICATIONS

Work in progress

- Text as Data in Environmental Economics and Policy (with Eugenie Dugoua and Marion Dumas), *Review of Environmental Economics and Policy*, R&R
- Heard the News? Environmental Policy and Clean Investments (with Laura Nowzohour and Matthias van den Heuvel)
- A News-Based Index of Environmental Policy Uncertainty (with Laura Nowzohour and Matthias van den Heuvel)
- Does Environmental Policy Uncertainty Deter Low-Carbon Technology FDI Inflows to the US? (with Laura Nowzohour)

Journal articles

h-index: 18 - total citations > 1100 (sept 2021) - ORCID [0000-0002-9053-0958]

- Noailly, J. and R. Smeets (2021) Financing Energy Innovation: Internal Finance and the Direction of Technical Change, *Environmental and Resource Economics*, Online first
- Wurlod, J.D. and J. Noailly (2018) The impact of green innovation on energy intensity: An empirical analysis for 14 industrial sectors in OECD countries, *Energy Economics*, 71, pp. 47-61.

- 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. 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

- Andersen, M. and J. Noailly (2021) Environmental policy and clean innovation in the mining sector, In: *Global Challenges for Innovation in the Mining Industry* Daly A., Humphreys D., Raffo J. and Valacchi G., Cambridge University Press.
- 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 (2021) Financing Energy Innovation: Internal Finance and the Direction of Technical Change CIES Working Paper Series, Graduate Institute Geneva.
- Popp, D., F. Vona and J. Noailly (2020) Green stimulus, jobs and the post-pandemic green recovery, VoxEU.org, July 4.
- Boulouchos, K., Baranzini, A, Duca Widmer M., Furrer, B., Noailly, J. et al. (2019) Energy Research 2020+ in Switzerland: Recommendations for Future Programmatic Funding, Position Paper, Swiss Academies of Arts and Sciences.
- Noailly, J. (2017) How Trump's climate agenda threatens clean innovation", CIES Policy Brief 1.
- Noailly, J. (2016) Research funding: Patience is a virtue, *Nature Energy*, Commentary April, Vol 1.
- 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.

INVITED SEMINARS AND CONFERENCE PRESENTATIONS

- 2021 VU Amsterdam, University of Aix-Marseille (invited) [upcoming]
European Economic Association Annual Congress
European Association of Environmental and Resource Economics (EAERE) Annual Conference
Conference Journees Louis-Andre Gerard-Varet, Marseille
Climate Change and Environment Research Seminar Series, LSE, London (invited)
Chair in Sustainability Seminar, University of Barcelona (invited)
- 2020 NBER Conference - Economics of Innovation in the Energy Sector, MIT, Boston
CIES seminar, Graduate Institute
- 2019 Workshop on the Economics of Environmental Policy and Innovation, University of Ottawa
- 2018 World Congress of Environmental and Resources Economics (WCERE), Gothenburg
- 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 (invited)
Workshop on Corporate Finance Alternatives in Europe, European Investment Bank, Luxembourg
- 2015 Conference 'Economics of innovation, diffusion, growth and the environment', LSE, London
Conference 'Our Common Future under Climate Change', Paris
- 2014 OFCE, Sciences-Po/SKEMA, Nice (invited)
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

POLICY PANELS AND MEDIA ACTIVITIES

- 2020 'Climate change and disaster risk: What do they imply for emerging market central banks
BCC Conference, Graduate Institute
Decarbonisation of the Dutch industry, OECD/DG REFORM
Covid-19 and Climate Change, CIES Policy webinar, Graduate Institute
- 2019 Clean energy in Africa, Public Event, Graduate Institute
- 2018 The Future of Energy Innovation, Policy Panel with WIPO, Graduate Institute
- 2016 Incentivizing the Grand Challenges, Public Forum, Graduate Institute
- 2015 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

Media activities:

- 'What if insurers stopped paying the climate bill?', Geneva Solutions, September 2020
- 'US47 trillion investment group puts pressure on big polluters', Geneva Solutions, September 2020
- 'What hope for the environment', Politics of the coronavirus pandemic, Podcast, Graduate Institute, 2020
- 'Il y a un changement de priorites', RTS Radio La Matinale, April 2020
- 'Pourquoi la pandémie de covid-19 est aussi une mauvaise nouvelle pour le climat?', Heidnews, April 2020
- 'Ce qu'il faut retenir des promesses de Davos', Heidnews, January 2020
- 'Sustainability is a distant dream', SNF Magazine, 2018
- 'Energies renouvelables: le modele marocain mis en exergue a Geneve', Le Matin Maroc, 2018
- 'How to unlock finance towards small cleantech firms?', GGKP Insights Blog, 2017
- 'Small firms, big impact.', GGKP Insights Blog, 2015
- 'Un accord, et maintenant?', Le Temps, 2015