

# François Lafond

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<b>Research interests</b>	Economics of innovation and productivity Environmental, energy and climate change economics Networks and complex systems Applied econometrics and forecasting
<b>Current positions</b>	<b>University of Oxford</b> Deputy director of the Complexity Economics group, INET 2020 – present Lead researcher, INET and Mathematical Institute 2019 - present Associate member, Nuffield College 2017 - present Oxford Martin fellow, Oxford Martin School 2014 – present
<b>Past positions</b>	<b>University of Oxford</b> Senior Research Officer, INET 2018 – 2019 Associate researcher, Oxford Martin School 2017 - 2019 Research Officer, INET 2014 - 2018 <b>London Institute for Mathematical Sciences</b> Postdoctoral researcher 2014 – 2016
<b>Education</b>	<b>Maastricht University</b> PhD in Economics 2009 – 2014 PhD program <i>Economics and Policy Studies of Technical Change</i> , UNU-MERIT Thesis: <i>The evolution of knowledge systems</i> Supervisor: Robin Cowan <b>University of Strasbourg</b> Research Master in the economics of knowledge 2008 – 2009 <b>University of Clermont-Ferrand I</b> Bachelor and Professional master in Economics 2002 – 2007
<b>Publications</b>	<b>In peer reviewed journals</b> del Rio-Chanona, R.M, Mealy, P., Beguerisse, M., Lafond, F. & Farmer, J. D. (2021), Automation and occupational mobility: a data-driven network model. <i>Journal of the Royal Society Interface</i> , forthcoming. Hötte, K., Pichler, A. & Lafond, F. (2021), The rise of science in low-carbon energy technologies, <i>Renewable &amp; Sustainable Energy Reviews</i> , forthcoming. del Rio-Chanona, R.M, Mealy, P., Pichler, A., Lafond, F. & Farmer, J. D. (2020), Supply and demand shocks in the COVID-19 pandemic: An industry and occupation perspective. <i>Oxford Review of Economic Policy</i> 36, Supp 1, S94–S137

Mariani, M. S., Medo, M., & Lafond, F. (2019). Early identification of important patents: Design and validation of citation network metrics. *Technological Forecasting and Social Change*, 146, 644-654.

Way, R., Lafond, F., Lillo, F., Panchenko, V., & Farmer, J. D. (2019). Wright meets Markowitz: How standard portfolio theory changes when assets are technologies following experience curves. *Journal of Economic Dynamics & Control*, 101, 211- 238.

Lafond, F., & Kim, D. (2019). Long-run dynamics of the US patent classification system. *Journal of Evolutionary Economics*, 29(2), 631-664.

Lafond, F., Bailey, A. G., Bakker, J. D., Rebois, D., Zadourian, R., McSharry, P., & Farmer, J. D. (2018). How well do experience curves predict technological progress? A method for making distributional forecasts. *Technological Forecasting & Social Change*, 128, 104-117.

Farmer, J. D., & Lafond, F. (2016). How predictable is technological progress? *Research Policy*, 45(3), 647-665.

Lafond, F. (2015). Self-organization of knowledge economies. *Journal of Economic Dynamics & Control*, 52, 150-165.

### **Working papers**

Pichler, A., Pangallo, M., del Rio Chanona, R. M., Lafond, F & Farmer, J. D. (2020), Production networks and epidemic spreading: How to restart the UK economy? *INET Oxford WP* 2020-12.

Pichler, A., Lafond, F & Farmer, J. D. (2020) Technological interdependencies predict innovation dynamics, *INET Oxford WP* No. 2020-04

Goldin, I., Koutroumpis, P., Lafond, F., & Winkler, J. (2020). Why is productivity slowing down?. *OMPTEC Working Paper* No. 2020-1.

Lafond, F., Farmer J. D. & Greenwald, D. (2020) Can stimulating demand drive costs down? World War II as a natural experiment, *INET Oxford WP* 2020-02.

Yang, J., Heinrich, T., Winkler, J., Lafond, F., Koutroumpis, P., & Farmer, J. D. (2019). Measuring productivity dispersion: a parametric approach using the Lévy alpha-stable distribution, *INET Oxford WP* 2019-04.

### **Policy reports**

Koutroumpis, P. and Lafond, F. (2018), Disruptive technologies and regional innovation policy, Background paper for an OECD/EC Workshop on 22 November 2018 within the workshop series “Broadening innovation policy: New insights for regions and cities”, Paris.

## Teaching

### **Courses**

*UNU-MERIT PhD program*

Introduction to Quantitative methods and Microeconomics 2012, 2013

*Maastricht University, Bachelor in Economics*

Tutor, Network Economics 2011

### **Summer schools**

*Oxford Summer School in Economic Networks*

	Networks in the economics of innovation	2018, 2019
	Introduction to network theory	2017, 2018
	<i>GROWTHCOM complex systems summer school</i>	
	Technological forecasting	2015
	<b>Co-supervision of doctoral students</b>	
	Maria del Rio Chanona, Mathematical Institute, Oxford	
	Anton Pichler, Mathematical Institute, Oxford	
	Andrea Bacilieri, School of Geography and the Environment, Oxford	
	Luca Mungo, Mathematical Institute, Oxford	
	Xiyu Ren, School of Geography and the Environment, Oxford	
<b>Research visits</b>	MIT International Design Center (Prof. Chris Magee)	Spring 2019
	University of Fribourg (Prof. Yi-Chen Zhang)	Summer 2015 2019
	Santa-Fe Institute	Summer 2014
<b>Professional service</b>	<b>Refereeing:</b> IPCC, Research Policy (3), Science Advances (1), Technological Forecasting & Social Change (2), Journal of Economic Interaction & Coordination (3), Plos One(2), World Patent Information (4), Physica A, Scientometrics, R&D Management, Advances in Complex Systems, International Journal of Microsimulation, International Journal of Work and Innovation, IEEE or other engineering journals (3).	
	<b>PhD thesis committee:</b>	
	Utrecht University, Economic geography	2020
	University of Oxford, transfer or confirmation of status (2)	
	Australian National University, Economics	2018
	<b>Events</b>	
	Co-organizer, The Global Production Networks and the COVID-19 Pandemic, Rebuilding macro workshop	2020
	Co-organizer, Oxford Summer school on Economic Networks	2017 – 2019
	Co-organizer, Satellite to the European Conference on Complex Systems on “Quantitative Methods for Predicting, Explaining and Describing Technological Change”	2015