

DAVID HÉMOUS

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Personal Information

Date of birth: 24th September 1983
Citizenship: French

Academic Positions

2019 – present	University of Zurich, Associate Professor of Economics of Innovation and Entrepreneurship. UBS Center for Economics in Society, Affiliated Professor
2015 – 2019	University of Zurich, Assistant Professor of Economics of Innovation and Entrepreneurship. UBS Center for Economics in Society, Affiliated Professor
2012 – 2015	INSEAD, Assistant Professor in Economics and Political Sciences

Other Positions

2020 -	CEPR, Research Fellow
2020 -	Collège de France, Associate Researcher
Spring 2016	Brown University, Visiting Professor
2013 –2020	CEPR, Research affiliate

Education

2006 – 2012	PhD in Economics, Harvard University MA in Economics, Harvard University
2003 – 2007	Ecole Polytechnique, Palaiseau, France BS, MS, Diplôme d'Ingénieur Physics, Economics
2001 – 2003	Preparatory classes, Lycée Fermat, Toulouse, France, Mathematics and Physics.

Grants, fellowships and Awards

2022	European Award for Researchers in Environmental Economics under the Age of Forty
2019 - 2024	ERC Starting Grant 2018 on “Automation and Income Distribution: a Quantitative Assessment”
2018	Nominee for the “Prize of best young French economist”
2011-2012	The Project on Justice, Welfare, and Economics Fellowship, Weatherhead Center, Harvard University
2010-2011	GSAS Dissertation Completion Fellowship

Teaching experience

2023	Macroeconomics Under Climate Change II: Innovation and Risk, Barcelona School of Economics, MA class.
2020-2023	“Economic Growth”, University of Zürich, BA class

2017-2023	“Growth, Technical Change and Inequalities”, University of Zürich, 2 nd year Phd class
2015-2023	“Macroeconomics for Research Students”, Phd core course, University of Zurich
2016-2022	“Macroeconomics, Economic Development and Future Economic Systems”, University of Zürich, Master of Advanced Studies in European and Chinese Business Management
2019	“Economic Growth”, Kiel Institute, Advanced Study Program.
2012-2015	“Macroeconomics in the Global Economy,” MBA core course, INSEAD

Phd students supervision

Main advisor:

Julian Schärer (2023)	Postdoc at the University of Geneva
Maria Alsina Pujols (2022)	Postdoc at ETH
Carlo Zanella (2020)	Postdoc at UZH
Arber Fazlija (2019)	UBS

Secondary advisor:

Liu Liu (2017)	WZB Berlin
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Presentations at conferences and seminars

Conferences:

2023	Swiss Macro Workshop (Sils Maria); Workshop on “International Trade and Multilateralism” (Villars), The Economic Foundations and the Impact of Innovation (Montreal), PSE-CEPR Policy Forum (Paris)
2022	Workshop on Structural Transformation and Macroeconomic Dynamics (Cagliari), CEPR Paris Symposium, 27th Annual Conference of the European Association of Environmental and Resource Economists (Rimini), Annual Conference of the OECD Global Forum on Productivity (Brussels), LSE Environment Week, University of Barcelona Macro Workshop
2021	Festschrift Conference in the honor of Philippe Aghion and Peter Howitt (Collège de France), Annual workshop in International Economics (UZH – St Gallen).
2020	Workshop on Structural Transformation and Macroeconomic Dynamics (Cagliari), NBER Economics of Innovation in the Energy Sector, IMT Workshop on Technology and the Labour Market.
2019	Swiss Macro Workshop (Sils Maria); Cowles Summer Conference (Macroeconomics, Yale); Collège de France; Swiss Society of Economics and Statistics Annual Congress (Geneva); Symposium on Technical Change Innovation and Climate (LSE); NBER Summer Institute; Alpmacro conference; Future of Work (ECARES); Hitostsubashi conference on International Trade and FDI.
2018	Swiss Macro Workshop (Sils Maria), Environmental Regulation, International Trade and Innovation (Université Paris-Est Créteil), Collège de France, CEPR-ESSIM (Oslo), CEPR Long-term effects of short-term policies (Tel Aviv), TRISTAN workshop (University of Bayreuth), ADI conference (University of Copenhagen)
2017	Innovation and Inequality (Washington U, St Louis), Income and Wealth Inequality (Brown), NBER Summer Institute, EEA meetings (Lisbon), Meeting

of the society for the study of economic inequality (New York), CIFAR (Zürich), Collège de France (Paris)

2016 AEA (San Francisco), CEPR-ESSIM (Helsinki), EAERE (Zürich)

2015 SED (Warsaw), EEA (Mannheim), UZH conference on Growth.

2014 Banque de France Joint Macro Workshop, SED (Toronto), NBER Summer Institute.

2013 Georgetown – INSEAD conference, EAERE Annual Conference (Toulouse),

2012 Pennsylvania State University (New Faces in International Economics), Yale University (Cowles Summer Conference), IIES Stockholm (Conference on Climate and the Economy).

2011 AEA Denver, Arizona State University.

Seminars:

2023 St Gallen, Stavanger University, University of Oslo, ETH Zurich, Imperial College, Glasgow University, University of Venice

2022 Bank of Portugal, University of Mannheim, University of Geneva, Copenhagen Business School, University of Aarhus, Humboldt University Berlin

2021 Catholic University of Milan, Université de Montpellier, Ecole Polytechnique, Richmond Fed, University of Luxembourg, PSE, HEC Paris, University of Kent, Oxford University, ETH Zürich

2020 Collège de France, Toulouse School of Economics, IMF, Berkeley, EIEF, Arizona State University, University of Vienna, EC-OECD Innovation and Growth Webinar Series, European Commission DG ECFIN

2019 London Business School, Oxford, Helsinki GSE

2018 Copenhagen Business School, University of Copenhagen

2017 University of St Gallen, University of Nottingham

2016 Brown, Yale University, Boston University, University of Bath, Universitat Autònoma de Barcelona, CEMFI

2015 PSE, University of Zurich, NUS, ECARES, Columbia University, EIEF.

2014 University of Warwick, Graduate Institute Geneva, UCSD, UCLA Anderson, USC Marshall, Ecole des Mines de Paris, Ecole Polytechnique, PSE, University of Chicago (Harris School of Public Policy), University of Zurich

2013 Sciences-Po Paris, Ecole Polytechnique, CIRED, IIES Stockholm, ETH Zurich

2012 Toulouse School of Economics, IIES Stockholm, INSEAD, University of Maryland AREC, Ohio State University, EBRD

2011 Harvard Kennedy School, Harvard University

2010 Toulouse School of Economics

Discussions:

2023 NBER Summer Institute ITI; NBER Summer Institute Economic Growth

2022 Annual Meeting of the CEPR MG Programme co-organised with STEG (Dublin)

2019 Economic Policy Panel Meeting (2), Bank of Portugal Conference on Monetary Economics, CEPR MG

2018 Macroeconomics of AI INET IMF, Economic Policy Panel Meeting (2)

2017 AEA (Chicago), CEPR ESSIM

2016 EABCN conference: Medium and long-run implications of financial crises; Shale gas and Energy Transition (CEPREMAP); NBER Summer Institute; CEPR Macroeconomics and Growth

2014 Political Economy Conference in Paris, HHEI conference on climate change at the University of Minnesota.

Academic Activities:

Associate Editor at the European Economic Review (2019-)

Associate Editor at the Economic Journal (2021-)

Economic Policy panelist (2017-2019).

Referee: The American Economic Journal: Economic Policy, The American Economic Journal: Macroeconomics, The American Economic Review, Ecological Economics, Econometrica, The Economic Journal, Economic Letters, Economica, The Economics of Transition, Energy Economics, Environmental and Resource Economics, The European Economic Review, The International Economic Review, Journal of the Association of Environmental and Resource Economists, Journal of Development Economics, Journal of Economic Growth, The Journal of Economic Theory, Journal of Environmental Economics and Management, Journal of International Economics, The Journal of Monetary Economics, The Journal of Political Economy, The Journal of Public Economic Theory, Journal of the European Economic Association, Macroeconomic Dynamics, The Quarterly Journal of Economics, Review of Economic Dynamics, The Review of Economic Studies, The Review of Economics and Statistics, The Scandinavian Journal of Economics, Swiss National Bank Working Papers series.

Excellence in Refereeing Award: Economic Journal (2016), Journal of the European Economic Association (2018), Review of Economic Studies (2022).

Conference involvement: 2022, 2021, 2017 and 2015 EEA Meetings Program Committee.

Research areas:

Economic Growth, Innovation, Macroeconomics, International Trade, Environmental Economics, Income Inequality.

Publications:

[1] Daron Acemoglu, Philippe Aghion, Leonardo Bursztyn, and David Hémous (2012), “The Environment and Directed Technical Change,” *The American Economic Review*, 102 (1), 131-66.

[2] Philippe Aghion, David Hémous and Enisse Kharroubi (2014), “Cyclical Fiscal Policy, Credit Constraints, and Industry Growth,” *The Journal of Monetary Economics*, 62, 41-58.

[3] Daron Acemoglu, Philippe Aghion and David Hémous (2014), “The Environment and Directed Technical Change in a North-South Model,” *The Oxford Review of Economic Policy*, 30 (3), 513-530.

[4] Adam Guren, David Hémous and Morten Olsen, (2015) “Sector Specific Human Capital and Transitional Dynamics,” *The Journal of International Economics*, 97 (1), 126-147.

[5] Philippe Aghion, Antoine Dechezleprêtre, David Hémous, Ralf Martin and John Van Reenen (2016), “Testing for Path Dependence in Clean versus Dirty Innovation: Evidence from the Automotive Industry,” *The Journal of Political Economy*, 124 (1), 1-51 (lead article).

[6] David Hémous (2016), “The Dynamic Impact of Unilateral Environmental Policies”, *Journal of International Economics*, 103, 80-95.

[7] David Hémous and Morten Olsen (2018), “Long-term Relationships, Static Gains and Dynamic Inefficiencies,” *Journal of the European Economic Association*, 16 (2), 383-435.

[8] Philippe Aghion, Ufuk Akcigit, Antonin Bergeaud, Richard Blundell and David Hémous (2019), “Innovation and Top Income Inequality,” *Review of Economic Studies*, 86 (1), 1-45.

[9] David Hémous and Morten Olsen (2021), “Directed Technical Change in Labor and Environmental Economics,” *Annual Review of Economics*, 13, 571-597.

[10] David Hémous and Morten Olsen (2022), “The Rise of the Machines: Automation, Horizontal Innovation and Income Inequality,” *American Economic Journal: Macroeconomics*, 14 (1), 179-223. AEJ Macro Best Paper Award (2023)

Working papers:

[11] “Induced Automation Innovation: Evidence from Firm-level Patent Data” joint with Antoine Dechezleprêtre, Morten Olsen and Carlo Zanella, revise and resubmit at *The Journal of Political Economy*.

[12] “The Spillover Effect of Top Income Inequality” joint with Joshua Gottlieb, Jeffrey Hicks and Morten Olsen, revise and resubmit at *Econometrica*.

[13] “Advantageous Selection as a Policy Instrument: Unravelling Climate Change” joint with Steven Cicala and Morten Olsen, revise and resubmit at *The American Economic Review*.

[14] “Climate Change, Directed Innovation and Energy Transition: The Long-run Consequences of the Shale Gas Revolution” joint with Daron Acemoglu, Philippe Aghion and Lint Barrage.

[15] “The Dynamics of the Labor Share: Evidence from Danish Microdata” joint with Morten Olsen

Work in progress:

[16] “Growth, Trade and Patents: A Quantitative Evaluation of TRIPS” joint with Ralph Ossa, Tom Sampson and Julian Schärer

[17] “Automation, Employment and the Changing Role of Capital” joint with Federica Coelli, David Dorn and Morten Olsen

[18] “Clean Transition in a Production Network” joint with Philippe Aghion and Ernest Liu

Book Chapter:

Antoine Dechezleprêtre and David Hémous (2022), “Directed Technical Change and Environmental Economics” prepared for *The Economics of Creative Destruction*, a Festschrift in honor of Philippe Aghion and Peter Howitt.

Published discussions (non-refereed):

David Hémous (2019), “Discussion of ‘where do people get their news’ by P. Kennedy and A. Prat”, *Economic Policy*, Volume 34 (97): 41-43.

David Hémous (2019), “Discussion of ‘Mars or Mercury? The geopolitics of international currency choice’ by B. Eichengreen, A. Mehl and L. Chițu”, *Economic Policy*, Volume 34 (98): 356-358.

David Hémous (2020), “Discussion of ‘Who is afraid of machines?’ by S. Blanas, G. Gancia and s. Y. Lee”, *Economic Policy*, Volume 34 (100): 662-664.

Non-academic publication:

Philippe Aghion, David Hémous and Reinhilde Veugelers (2009). “No Green Growth without Innovation”. Bruegel Policy brief 2009/07.

David Hémous (2021). “Green Innovation Policies”, UBS Center Discussion Paper.