

Arnaud Dyèvre

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Fields

Macroeconomics
Public Economics

Interests

Growth/Innovation
Firm Heterogeneity
Production Networks

Education

London School of Economics, London

2020 - 2024 Ph.D. in Economics

2018 - 2020 M.Res. in Economics (*Distinction*)

2013 - 2014 M.Sc. in Local Economic Development (*Distinction, Best dissertation prize*)

Sorbonne Université, Paris

2014 - 2018 B.Sc. in Mathematics

Sciences Po, Paris

2010 - 2013 B.A. in Economics and Political Science

Job Market Paper

Public R&D Spillovers and Productivity Growth

Best Job Market Paper Award 2023 - European Economic Association & UniCredit Foundation

Does the source of Research and Development funding, public or private, matter for aggregate productivity growth? Using a unique firm-level dataset with patent and balance-sheet information covering 70 years (1950-2020), I estimate the impact of the decline in public R&D in the US on long-run productivity growth. I use two instrumental variable strategies—a historical shift-share IV and a patent examiner leniency instrument—to estimate the impact of the decline in public R&D on the productivity of firms through spillovers. I find that a 1% decline in public R&D spillovers causes a 0.17% decline in productivity growth. Public R&D spillovers are three times as impactful as private R&D spillovers for firm productivity and their impact persists at the sector level. Moreover, smaller firms experience larger productivity gains from public R&D spillovers. I calibrate a model of growth with heterogeneous firms which suggests that the decline in public R&D can explain around a third of the decline in TFP growth in the US from 1950 to 2017, and a third of the rise in size inequality between firms over the same period.

References

Xavier Jaravel (supervisor)

Dept. of Economics, LSE, x.jaravel@lse.ac.uk

Benjamin Moll (supervisor)

Dept. of Economics, LSE, b.moll@lse.ac.uk

Arun Advani (advisor)

Dept. of Economics, Warwick, a.advani.1@warwick.ac.uk

John Van Reenen (advisor)

Dept. of Economics, LSE, j.vanreenen@lse.ac.uk

Publications

Innovation Catalysts: How Multinationals Reshape the Global Geography of Innovation

with Riccardo Crescenzi & Frank Neffke, *Economic Geography*, June 2022

Graduating from Food Insecurity: Evidence from Graduation Projects in Burundi and Rwanda

with Stephen Devereux, Keetie Roelen, Ricardo Sabates, Rachel Sabates-Wheeler & Dimitri Stoelinga, *Food Security*, February 2019

Work in progress

The Rwanda-Uganda border closure: Impacts and Adaptation through Production Networks

with Andrew Bernard, Patrick Hitayezu and John Spray

Fragmentation, Employment and Compensation in Production Networks

with Jan Bakker, Kalina Manova and Andreas Moxnes

70 Years of Patents Matched to Firms: Methodology and Insights About Firm Heterogeneity

with Oliver Seager

The Impacts of Migrants on Firm Performance: the Central Roles of Migrant and Firm Heterogeneities

with Arun Advani and Andy Summers

Awards, grants & fellowships

Awards

- 2023 UniCredit Foundation Econ Job Market Best Paper Award 2023
- 2021 LSE Class Teacher Award, recipient, Department of Economics
- 2021 LSE Excellence in Education Award, recipient, Department of Economics
- 2020 Distinction, M.Res. in Economics, LSE
- 2020 LSE Student Union Teaching Award, nominated by students

Grants

- 2022 IGC Small Research Grant (£18,000, co-PI)
- 2022 STICERD Ph.D. research grant (£5,000, PI)
- 2022 LSE Race Equity Innovation Fund (£2,000, co-applicant)
- 2021 CEPR-STEG Ph.D. Research Grant (£15,000, PI)
- 2021 STICERD Ph.D. research grant (£5,000, PI)

Fellowships

- 2022 National Bank of Belgium visiting fellowship
- 2020-2022 Alan Turing Institute Enrichment Student fellowship
- 2018-2023 ESRC Doctoral fellowship

Research experience

National Bank of Belgium

2022 Visiting Ph.D. Researcher

Brussels

Alan Turing Institute

2020-2022 Visiting Ph.D. Student ('Engage@Turing' and 'Enrichment')

London

LSE

2019 - 2021 RA to Profs. Arun Advani, Felix König & Andy Summers, LSE

2017 - 2018 RA to Profs. Camille Landais & Johannes Spinnewijn, LSE

London

Teaching experience

LSE

- 2021 - 2023 M.Sc. Macroeconomics – TA to Matthias Doepke, Wouter den Haan & Alwyn Young
- 2020 - 2023 M.Sc. & Ph.D. Statistics and Probabilities for Economics – TA to Marcia Schafgans
- 2019 - 2020 B.Sc. Econometrics – TA to Taisuke Otsu, Steve Pischke & Canh Thien Dang
- 2019 Python for Social Scientists – weeklong Course for Ph.D. students

LSE, Widening Participation school

2020 Economics teacher for students from London state schools (outreach program)

Skills

IT Stata, Matlab, Python, ArcGis, Gephi, Git & GitHub, HTML & Markdown

Languages **French** (native), **English** (full professional proficiency), **German** (fading)

Conferences and seminars

2024 (incl. scheduled*): PhD-EVS, Stockholm, HEC Paris, Tübingen, OECD*, RES annual conference*, EAYE*

2023: Alan Turing Economics Data Science workshop, Warwick PhD conference 2023, Concordi 2023 conference, WEFI, CEPR Paris Symposium, EWMES 2023, MINECOFIN (Rwanda)

2022: STEG PhD conference, Bank of Uganda

Outreach and Service

2020 - 2023 Co-founder and coordinator of the Ph.D. [Applicant Mentoring Programme](#)
Mentoring scheme for PhD applicants from underrepresented backgrounds.
Jointly led by Ph.D. students at Cambridge, LSE, Oxford, UCL and Warwick

Referee for *Economica*, *Economic Journal*

Updated: March 15, 2024