

# Arnaud Dyèvre

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Placement officer:

Prof. Matthias Doepke, [m.doepke@lse.ac.uk](mailto:m.doepke@lse.ac.uk)

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## Fields

Primary: Macroeconomics  
Secondary: Public Economics

## Interests

Growth/Innovation  
Firm Heterogeneity  
Production Networks

## Education

**London School of Economics**, London

2020 - *present* 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](mailto:x.jaravel@lse.ac.uk)

Benjamin Moll (supervisor)

Dept. of Economics, LSE, [b.moll@lse.ac.uk](mailto:b.moll@lse.ac.uk)

Arun Advani (advisor)

Dept. of Economics, Warwick, [a.advani.1@warwick.ac.uk](mailto:a.advani.1@warwick.ac.uk)

John Van Reenen (advisor)

Dept. of Economics, LSE, [j.vanreenen@lse.ac.uk](mailto: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)
- 2021 CEPR-STEG Ph.D. Research Grant (£15,000, PI)
- 2021 STICERD Ph.D. research grant (£5,000, PI)
- 2021 LSE Race Equity Innovation Fund (£2,000, co-applicant)

### *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

### *Harvard Kennedy School & LSE*

2016 - 2017 RA to Prof. Riccardo Crescenzi (LSE) & Frank Neffke (HKS)

Cambridge (MA) & 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	<a href="#">Python for Social Scientists</a> – weeklong Course for Ph.D. students

### *LSE, Widening Participation school*

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

<b>IT</b>	Stata, Matlab, Python, ArcGis, Gephi, Git & GitHub, HTML & Markdown
<b>Languages</b>	<b>French</b> (native), <b>English</b> (full professional proficiency), <b>German</b> (fading)

## Outreach and Service

2020 - 2023	Co-founder and coordinator of the Ph.D. <a href="#">Applicant Mentoring Programme</a> Mentoring scheme for PhD applicants from underrepresented backgrounds. Jointly led by Ph.D. students at Cambridge, LSE, Oxford, UCL and Warwick
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Referee for	Economica, Economic Journal
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