

Research seminar (MW86)
Summer semester 2021
Dr. Apoorva Gupta

Seminar: Economics of Innovation and Growth

Content: In this course, we will discuss recent research on the role of innovation in firm-level and aggregate economic growth. Prior knowledge of micro-econometrics and macro-growth models is recommended.

A list of topics and main reference readings is proposed below. Students are expected to make a presentation and subsequently write an essay on a topic of their choice, both in English. Besides the main reading, it is expected that students cite and evaluate additional relevant literature. Suggestions for alternative projects that are related to the topic of the seminar are welcome.

Target group: MSc VWL / MSc BWL
SWS/Credit points: 2 SWS / 4 ECTS
Maximum number of students: 15
Examination: 5000 words essay and presentation

Grading:

20 min Presentation: 30%
Essay: 60%
Class participation: 10%

Topics and main reference reading

1) Idea driven growth: Sustainable or not?

Bloom, Nicholas, Charles I. Jones, John Van Reenen, and Michael Webb. "Are ideas getting harder to find?." *American Economic Review* 110, no. 4 (2020): 1104-44.

2) The role of product creation in firm growth

Argente, David and Lee, Munseob and Moreira, Sara, The Life Cycle of Products: Evidence and Implications (February 26, 2019). Available at SSRN: <https://ssrn.com/abstract=3163195> or <http://dx.doi.org/10.2139/ssrn.3163195>

3) Measuring the importance of technological innovation for economic growth

Kogan, Leonid, Dimitris Papanikolaou, Amit Seru, and Noah Stoffman. "Technological innovation, resource allocation, and growth." *The Quarterly Journal of Economics* 132, no. 2 (2017): 665-712.

4) Social return of research and development

Bloom, Nicholas, Mark Schankerman, and John Van Reenen. "Identifying technology spillovers and product market rivalry." *Econometrica* 81, no. 4 (2013): 1347-1393.

5) Technology adoption and firm growth

DeStefano, Timothy, Richard Kneller, and Jonathan Timmis. "Broadband infrastructure, ICT use and firm performance: Evidence for UK firms." *Journal of Economic Behavior & Organization* 155 (2018): 110-139.

6) Mission oriented innovation policy: The role of the State

Mariana Mazzucato and Caetano Penna (2016) "[Beyond market failures: the market creating and shaping roles of state investment banks](#)", *Journal of Economic Policy Reform*, 19(4): 305-326, [SPRU working paper version](#)

7) Firm-level R&D incentives and growth

Lucking, Brian. *Do R&D tax credits create jobs*. Stanford Working Paper, 2018.

8) Innovation and firm growth

Coad, Alex, Agustí Segarra, and Mercedes Teruel. "Innovation and firm growth: does firm age play a role?." *Research policy* 45, no. 2 (2016): 387-400.

9) Creative destruction

Garcia-Macia, Daniel, Chang-Tai Hsieh, and Peter J. Klenow. "How destructive is innovation?." *Econometrica* 87, no. 5 (2019): 1507-1541.

10) Intellectual property rights and growth

Kim, Yee Kyoung, Keun Lee, Walter G. Park, and Kineung Choo. "Appropriate intellectual property protection and economic growth in countries at different levels of development." *Research policy* 41, no. 2 (2012): 358-375.