Presenting difference-in-differences?

Florenta Teodoridis (USC)

Michael Bikard (INSEAD)

Keyvan Vakili (LBS)

from the paper

"Creativity at the knowledge frontier: The impact of specialization in fast-and slow-paced domains"

Main predictions

H1: As the pace of change in a domain accelerates, the creative performance of specialists relative to generalists increases.

H2: As the pace of change in a domain accelerates, generalists are likely to experience a decline in their creative performance. The reverse occurs for specialists.

Empirical design

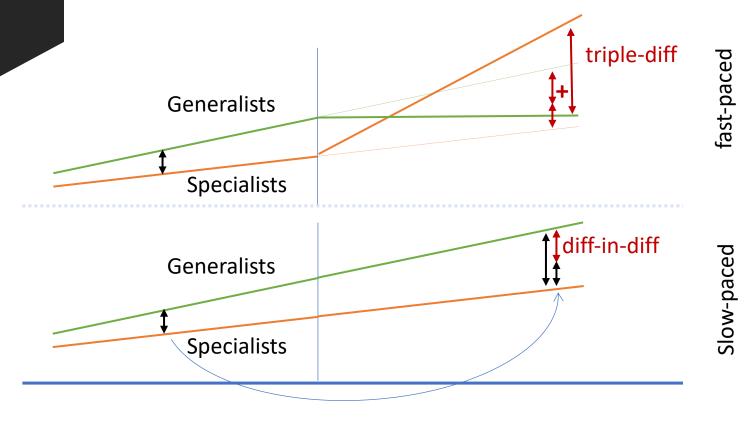
- Collapse of the Soviet Union as an exogenous shock to theoretical mathematics
 - Some areas experienced big shifts in knowledge frontier
 - Some areas experienced small shifts

 Comparing <u>specialists</u> and <u>generalists</u>, <u>before and after</u> the shock in <u>fast-paced vs. slow-paced areas</u>

Three diff-in-diffs (DID) and one diff-in-diff-in-diffs

The full picture

Problem: Too confusing

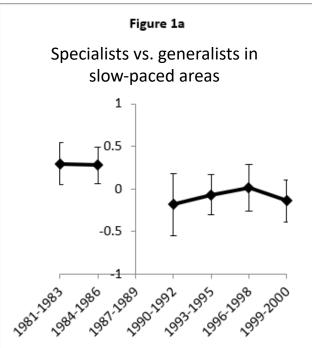


Before the collapse

After the collapse

Breaking it down

Problems:
Still confusing; but better
Not elegant



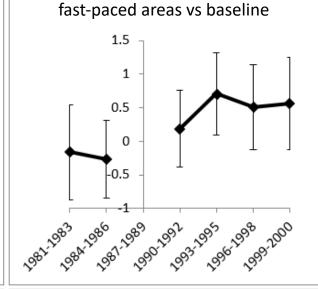
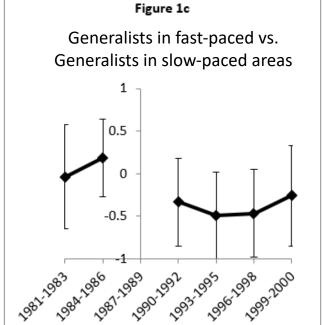


Figure 1b

Specialists vs. generalists in



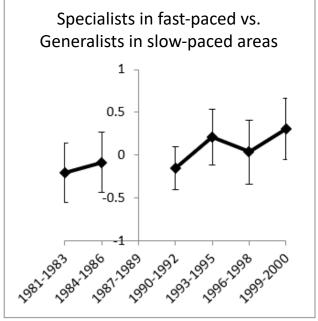


Figure 1d

Solution

Normalizing the pre-shock period

Only showing the differences between specialists and generalists post-shock in fast-paced vs. slow-paced domains

No more post vs. pre -> back to DID

Matched Sample

