

Accepted Manuscript

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PII: S0304-3932(18)30206-X
DOI: [10.1016/j.jmoneco.2018.05.011](https://doi.org/10.1016/j.jmoneco.2018.05.011)
Reference: MONEC 3007

To appear in: *Journal of Monetary Economics*

Received date: 16 April 2018

Accepted date: 31 May 2018

Please cite this article as: Alexandr Kopytov, Nikolai Roussanov, Mathieu Taschereau-Dumouchel, Short-Run Pain, Long-Run Gain? Recessions and Technological Transformation, *Journal of Monetary Economics* (2018), doi: [10.1016/j.jmoneco.2018.05.011](https://doi.org/10.1016/j.jmoneco.2018.05.011)

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Short-Run Pain, Long-Run Gain? Recessions and Technological Transformation*

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June 2018

Abstract

Recent empirical evidence suggests that skill-biased technological change accelerated during the Great Recession. We use a neoclassical growth framework to analyze how business cycle fluctuations interact with a long-run transition towards a skill-intensive technology. In the model, the adoption of new technologies by firms and the acquisition of new skills by workers are concentrated in downturns due to low opportunity costs. As a result, shocks lead to deeper recessions, but they also speed up adoption of the new technology. Our calibrated model matches both the long-run downward trend in routine employment and key features of the Great Recession.

JEL Codes: E24, E32, O33, J24

Key words: job polarization, routine-biased technical change, business cycle, human capital investment, Great Recession

*We thank Henry Siu (discussant), Sevin Yeltekin (editor), seminar participants at Columbia, Wharton, and conference participants at the Carnegie-Rochester-NYU Conference on Public Policy, for which this paper was prepared.

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