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Volume 22, 2015 - [Issue 15](#)

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# The distributional effects of the multi-track year-round calendar: a quantile regression approach

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Pages 1188-1192 | Published online: 25 Feb 2015

🗨️ Cite this article 🔗 <https://doi.org/10.1080/13504851.2015.1016204>



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## Abstract

Year-round school (YRS) calendars that redistribute the 180 school days more evenly across the calendar year are growing in popularity. Learning loss theory predicts student response to year-round calendars could vary substantially across achievement levels. Existing research on the heterogeneous effects of YRS focuses on estimating mean treatment effects by subgroup. We instead use a quantile regression approach with school and grade-by-year fixed effects to estimate the distributional impact of year-round calendars using a natural experiment setting in Wake County, NC. Contrary to the prior literature, we find evidence of a positive impact of year-round calendars for the lowest-performing students. However, even for these students, the estimated academic impact is small.

## Keywords:

quantile regression

achievement gaps

year-round schooling

## JEL Classification:

I21

I24

I28

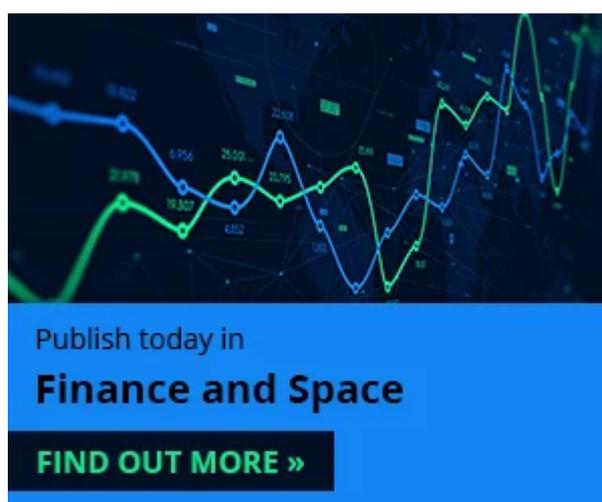
## Notes

<sup>1</sup> For a detailed description of the policy change, see McMullen and Rouse ([2012](#)).

## Additional information

### Funding

We thank the McGregor Fellows program at Calvin College and the Calvin Alumni Association for supporting this research.



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