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High frequency trading and the 2008 short-sale ban☆

Jonathan Brogaarda,*, Terrence Hendershottb, Ryan Riordanc

a Foster School of Business, University of Washington, WA 98105, United States
b Haas School of Business, University of California, Berkeley, CA 94720, United States
c Smith School of Business, Queen’s University, K7L 3N6, Canada

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ABSTRACT
We examine the effects of high-frequency traders (HFTs) on liquidity using the September 2008 short-sale ban. To disentangle the separate impacts of short selling by HFTs and non-HFTs, we use an instrumental variables approach exploiting differences in the ban’s cross-sectional impact on HFTs and non-HFTs. Non-HFTs’ short selling improves liquidity, as measured by bid-ask spreads. HFTs’ short selling has the opposite effect by adversely selecting limit orders, which can decrease liquidity supplier competition and reduce trading by non-HFTs. The results highlight that some HFTs’ activities are harmful to liquidity during the extremely volatile short-sale ban period.

JEL Classification: G12, G14, G23
Keywords: High frequency trading, short selling, liquidity

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* Corresponding author. Tel.: +1 206 685 7822, fax: +1 206 543 7472.
E-mail address: brogaard@uw.edu.
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