

Discussion of:
“Green or Brown?”
Choosing an Overpriced Stock to Short Sell”
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Motivation and findings

- **Motivation:** Whether **short sellers** show varying preferences for (**overpriced**) firms with different levels of **ESG** performance?
- **Main findings:**
- Causal effect:
 - negative effect of ESG score on short sell among overpriced stocks
- Mechanism:
 - Synchronization risk
 - Short squeeze risk
 - ESG reputation risk
- Asset pricing implication
 - Insufficient short sell => more negative return in the future

Comment-1: Short-squeeze risk and DGSVI

- Short-squeeze risk: a temporary price increase on the stock being shorted
- DGSVI: change of Google Search Volume Index on ESG topic
- **To validate that DGSVI can proxy for the short squeeze risk**
- **To include DGSVI in the regression**

Panel A: The impact of Google Search Volume

	On Loan		Utilization Ratio	
	(1)	(2)	(3)	(4)
Overprice x ESG Score x DGSVI	-1.084*** (-2.86)	-0.706** (-2.39)	-3.607*** (-2.91)	-3.478*** (-2.58)
Overprice x ESG Score	-0.554 (-1.00)	-1.233*** (-2.72)	-3.914** (-2.37)	-5.360*** (-3.75)
Overprice x DGSVI	0.561** (2.42)	0.211 (0.80)	2.398*** (3.09)	2.030** (2.37)
ESG Score x DGSVI	0.293** (2.15)	0.235* (1.68)	-0.225 (-0.58)	-0.201 (-0.48)
Overprice	1.483*** (4.29)	1.506*** (5.23)	5.807*** (5.36)	5.455*** (5.84)
ESG Score	-0.718 (-1.49)	0.065 (0.16)	-2.659** (-2.09)	-0.638 (-0.55)
DGSVI				
Controls	No	Yes	No	Yes

Comment-2: Fama-MacBeth results

- No enough short sell for overpriced stocks => more negative future return
- The coefficient of Overprice×Short Sell should be significant positive.

Panel B. Controlling for short selling demand

	(1)	(2)	(3)	(4)
Overprice x ESG	-0.586** (-1.98)	-0.924*** (-2.86)	-0.447 (-1.14)	-0.757* (-1.93)
Overprice	-0.055 (-0.27)	0.243 (1.15)	-0.202 (-0.93)	0.037 (0.15)
ESG Score	-0.122 (-0.71)	0.433* (1.85)	-0.170 (-1.08)	0.393* (1.82)
Overprice x On Loan			0.021 (1.23)	0.036** (2.22)
On Loan			-0.014 (-1.07)	-0.025** (-2.19)
Overprice x UT				
UT				
Controls	No	Yes	No	Yes
Adj R-squared	0.012	0.060	0.025	0.070
Observations	105,986	95,104	105,986	95,104

Comment-3: Other driving force

- “insufficient short selling demand may not be the only reason for the return predictability”
- **Any other driving force?**

Panel B. Controlling for short selling demand

	(1)	(2)	(3)	(4)	(5)	(6)
Overprice x ESG	-0.586** (-1.98)	-0.924*** (-2.86)	-0.447 (-1.14)	-0.757* (-1.93)	-0.466 (-1.09)	-0.652* (-1.70)
Overprice	-0.055 (-0.27)	0.243 (1.15)	-0.202 (-0.93)	0.037 (0.15)	-0.180 (-0.78)	0.006 (0.02)
ESG Score	-0.122 (-0.71)	0.433* (1.85)	-0.170 (-1.08)	0.393* (1.82)	-0.176 (-1.09)	0.381* (1.72)
Overprice x On Loan			0.021 (1.23)	0.036** (2.22)		
On Loan			-0.014 (-1.07)	-0.025** (-2.19)		
Overprice x UT					0.008 (1.35)	0.014** (2.31)
UT					-0.006 (-1.33)	-0.007** (-1.99)
Controls	No	Yes	No	Yes	No	Yes
Adj R-squared	0.012	0.060	0.025	0.070	0.024	0.070
Observations	105,986	95,104	105,986	95,104	105,986	95,104

Comment-3: Other driving force

- Borrow some ideas from the mechanism analysis
- A risk-based explanation on the return predictability

- Testable hypothesis:
- Cross-section, for synchronization risk
 - The predictability should be stronger among stocks with greater socially responsible institutional ownership
- Time-series, for short-squeeze risk
 - The predictability should be stronger in the period with greater ESG attention

Minor comments

- Overpriced variable:
 - Dummy vs continuous

- Small typo:
 - Page 3: Short squeeze” => “Short squeeze”

Conclusion

- An interesting paper with clear and intuitive motivation
 - The first to investigate the effect of ESG on short selling
 - Causal effect + mechanism + asset pricing implication
 - Well-written and well-executed
- Look forward to its publication in top journals
- Good luck!