

# ECO499 Replication Study: In Search of Attention; Asymmetric Attention and Stock Returns (Cziraki, Mondria, Wu, 2021)



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I. Paper Results

II. Replication Data

III. Summary Statistics

V. Regression Results

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Observations	Length above 1	Length above 2	Length above 2	Dictionary 1	Dictionary 2	Dictionary 1 and 2	No selection
Month	t+1	t+1	t+1	t+1	t+1	t+1	t+1
Regression	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Abnormal national attn.	-0.239 (-1.563)						
Abnormal asymmetric attn.		0.214*** (3.435)	0.226*** (3.559)	0.262*** (3.571)	0.265*** (3.671)	0.278*** (3.762)	0.213*** (3.417)
log(ME)	-0.240*** (-6.359)	-0.241*** (-6.419)	-0.244*** (-6.415)	-0.210*** (-5.248)	-0.206*** (-5.302)	-0.206*** (-5.205)	-0.241*** (-6.508)
log(BE/ME)	-0.016 (-0.257)	-0.016 (-0.262)	-0.001 (-0.011)	-0.021 (-0.313)	-0.014 (-0.222)	-0.017 (-0.254)	-0.014 (-0.229)
Ret	0.000 (0.028)	-0.000 (-0.032)	-0.000 (-0.014)	0.000 (0.036)	-0.001 (-0.209)	-0.001 (-0.173)	0.000 (0.055)
Ret[t-12,t-1]	-0.000 (-0.086)	-0.000 (-0.086)	-0.000 (-0.086)	-0.001 (-0.344)	-0.001 (-0.293)	-0.001 (-0.364)	-0.000 (-0.079)
Amihud	0.291 (1.023)	0.316 (1.142)	0.264 (0.924)	0.724 (1.174)	0.756 (1.213)	0.687 (1.064)	0.305 (1.083)
Spread	1.269 (1.559)	1.268 (1.562)	1.191 (1.502)	2.078** (2.055)	1.550* (1.836)	2.063** (2.049)	1.322 (1.634)
Volatility	-0.002 (-0.015)	-0.006 (-0.062)	-0.020 (-0.183)	-0.031 (-0.277)	-0.051 (-0.462)	-0.040 (-0.353)	-0.011 (-0.106)
$\Delta$ Turnover	0.012 (0.074)	-0.000 (-0.003)	0.000 (0.003)	0.054 (0.285)	0.065 (0.345)	0.045 (0.233)	0.006 (0.034)
R-squared	0.055	0.054	0.057	0.064	0.063	0.065	0.054

Figure: Asymmetric Attention and Stock Returns, Paper

1. Google Search Volume data of 738 stocks is listed on SP500 from January 2004 to December 2016 (Normalized Monthly) .
2. The stock ticker and gvkey is used to identify the company.
3. Volume, price data are obtained from CRSP.

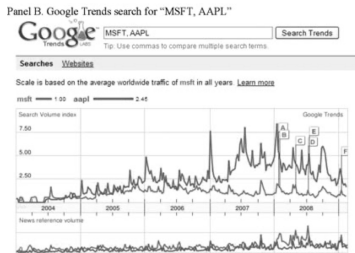


Figure: Sample SVI data from Google Trends

Variable	Obs	Mean	Std. dev.	Min	Max
us_search~x3	84,636	-.0101305	.2045301	-3.401197	2.285193
local_sea~x3	84,636	-.0162644	.6164782	-4.58156	4.61512
asymmetric~3	84,636	-.0061339	.6049544	-4.722333	4.963427
mkvalt	82,843	2.39e+10	4.40e+10	1.42e+08	7.51e+11
beme	82,017	.4404785	.4388216	-26.93212	15.95713
ret	84,438	1.074002	10.14384	-86.86451	269.3548
ret_cum	83,912	14.76931	43.39421	-99.03282	2530
amihud	84,550	1.09e-07	2.06e-06	0	.000104
spread	84,436	.0806496	.4574139	-1.960783	110.4367
ret_vol_sc~d	84,541	1.952686	1.503708	.0302854	45.24704
turnover_x	84,546	.0015136	.3342642	-4.961907	5.919207
Percen~R Ave	66,089	.0003233	.0010554	-.1166923	.1128716

Figure: Table 1: Summary Statistics

Fama-MacBeth (1973) Two-Step procedure

Number of obs = **78132**  
 Num. time periods = **151**  
 F( **10**, **140**) = **9.32**  
 Prob > F = **0.0000**  
 avg. R-squared = **0.0596**  
 Adj. R-squared = **0.0409**

ret_dgtw_f1	Fama-MacBeth					[95% conf. interval]	
	Coefficient	std. err.	t	P> t			
us_searches_x3	<b>-.2177003</b>	<b>.1519965</b>	<b>-1.43</b>	<b>0.154</b>	<b>-.5182055</b>	<b>.0828048</b>	
asymmetric_searches_x3	<b>.1441081</b>	<b>.0543935</b>	<b>2.65</b>	<b>0.009</b>	<b>.0365692</b>	<b>.251647</b>	
l_mkvalt	<b>-.2211978</b>	<b>.0513793</b>	<b>-4.31</b>	<b>0.000</b>	<b>-.3227774</b>	<b>-.1196182</b>	
l_beme	<b>-.0181031</b>	<b>.0583078</b>	<b>-0.31</b>	<b>0.757</b>	<b>-.1333807</b>	<b>.0971745</b>	
ret	<b>.0012531</b>	<b>.0048796</b>	<b>0.26</b>	<b>0.798</b>	<b>-.008394</b>	<b>.0109003</b>	
ret_cum	<b>-.0004013</b>	<b>.0033486</b>	<b>-0.12</b>	<b>0.905</b>	<b>-.0070217</b>	<b>.006219</b>	
l_amihud	<b>.026145</b>	<b>.0468568</b>	<b>0.56</b>	<b>0.578</b>	<b>-.0664933</b>	<b>.1187834</b>	
spread	<b>1.303045</b>	<b>.7003619</b>	<b>1.86</b>	<b>0.065</b>	<b>-.0816078</b>	<b>2.687698</b>	
ret_vol_scaled	<b>.0168105</b>	<b>.1018282</b>	<b>0.17</b>	<b>0.869</b>	<b>-.1845093</b>	<b>.2181303</b>	
turnover_x	<b>.0083459</b>	<b>.1619898</b>	<b>0.05</b>	<b>0.959</b>	<b>-.3119166</b>	<b>.3286084</b>	
cons	<b>5.341494</b>	<b>.9739961</b>	<b>5.48</b>	<b>0.000</b>	<b>3.415851</b>	<b>7.267136</b>	

Figure: Table 2: Asymmetric Attention and Stock Returns, No Selection

Fama-MacBeth (1973) Two-Step procedure

Number of obs = **70290**  
 Num. time periods = **151**  
 F( **10**, **140**) = **9.05**  
 Prob > F = **0.0000**  
 avg. R-squared = **0.0630**  
 Adj. R-squared = **0.0422**

ret_dgtw_f1	Fama-MacBeth					[95% conf. interval]	
	Coefficient	std. err.	t	P> t			
us_searches_x3	-.2474951	.1564409	-1.58	0.116	-.5567871	.0617969	
asymmetric_searches_x3	.1533561	.0552244	2.78	0.006	.0441746	.2625376	
l_mkvalt	-.233936	.0533763	-4.38	0.000	-.3394638	-.1284082	
l_beme	-.0018238	.0564696	-0.03	0.974	-.1134672	.1098197	
ret	.0006195	.0051913	0.12	0.905	-.0096439	.0108829	
ret_cum	-.0005087	.0034054	-0.15	0.881	-.0072414	.006224	
l_amihud	.014984	.0493288	0.30	0.762	-.0825416	.1125096	
spread	1.225688	.6892941	1.78	0.078	-.1370838	2.588459	
ret_vol_scaled	.0073598	.105039	0.07	0.944	-.200308	.2150276	
turnover_x	.0068684	.1652584	0.04	0.967	-.3198564	.3335931	
cons	5.464771	1.00481	5.44	0.000	3.478209	7.451334	

Figure: Table 3: Asymmetric Attention and Stock Returns, Length  $i$  2