

ESG Favoritism in Mutual Fund Families

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Objective

Do fund families strategically coordinate actions to enhance the performance of their ESG equity mutual funds at the expense of their non-ESG equity mutual funds?

- The net-of-style return spread of ESG compared to non-ESG funds *within* the fund family is significantly greater than the gap with non-ESG matches *outside* the family.
- The difference is 2% per year, indicating sizable cross-fund subsidization that is mainly used to avoid underperformance of ESG funds and optimize fee income.

Methodology

Inspired by Gaspar et al. (2006).

- **Idea:** Is the return differential of ESG and non-ESG funds different *within* and *outside* the fund family?

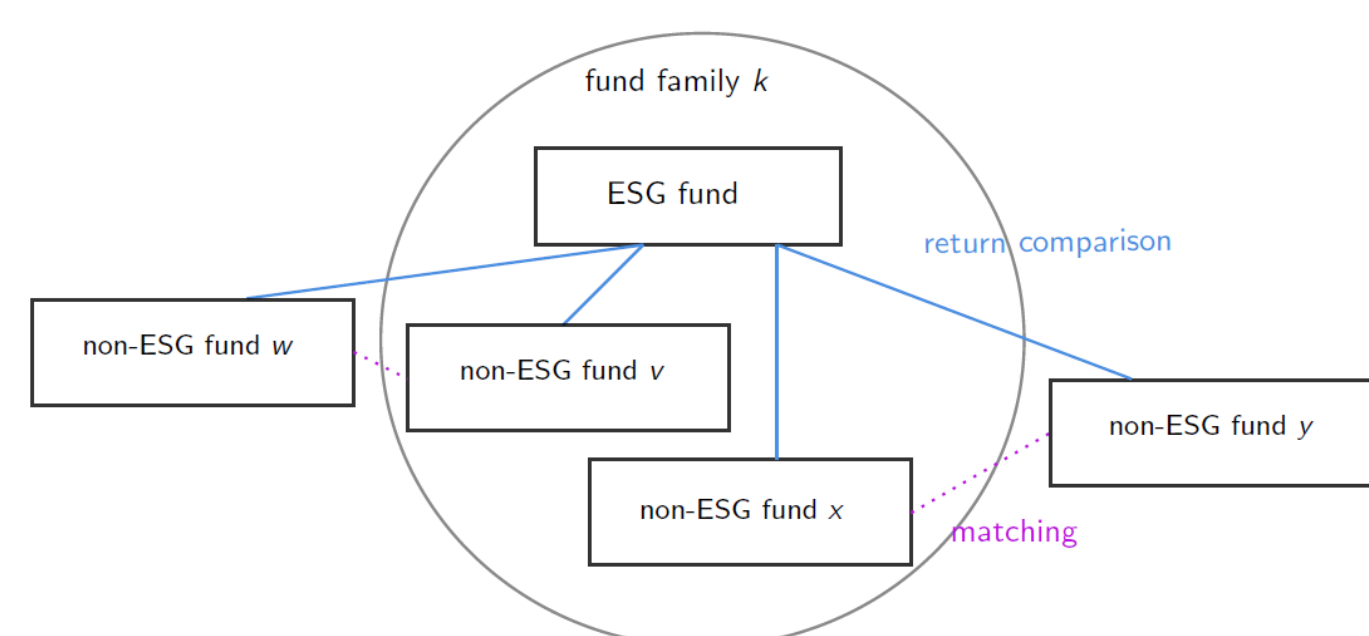


Figure 1: Fund Matching

- **Fund matching:**
 - 1 pair each ESG fund with all non-ESG funds in the same fund family
 - 2 match each non-ESG fund with the closest fund outside the fund family with the same investment style based on Mahalanobis distance using ytd performance, age, and fees
 - 3 pair each ESG fund additionally with all such matched funds outside the fund family
- Compute the difference in net-of-style returns

- **Data:** Monthly panel of U.S. equity open-end funds obtained from Morningstar Direct, covering 2000-2022

Univariate Analysis

	Actual Pairs	Matched Pairs
2005 - 2022	-0.006	-0.169***
2005 - 2015	-0.007	-0.143***
2016 - 2022	-0.006	-0.199***

Table 1: Univariate Analysis

- ⇒ 2.0% annual underperformance of ESG funds compared to non-ESG funds outside the family
- ⇒ significantly stronger effect following the Paris Agreement
- ⇒ evidence of no in-family ESG fund outperformance

Regression Framework

$$\text{Net_return}_{i,t}^{ESG} - \text{Net_return}_{j,t}^{non-ESG} = \alpha + \beta \text{Same_family}_{i,j} + \zeta \text{Same_style}_{i,j} + \text{Controls} + \epsilon_{i,j,t}, \quad (1)$$

where Same_family (Same_style) is a dummy variable which is 1 if the ESG fund and the non-ESG fund belong to the same family (follow the same investment style).

	(1)	(2)
Same family	0.172*** (0.012)	0.144*** (0.010)
Same style	-0.002 (0.015)	0.001 (0.016)
Controls	No	Yes
Year FE	Yes	Yes
Family FE	Yes	Yes
Style FE	Yes	Yes
Observations	195,333	192,914
Adjusted R ²	0.012	0.016

Table 2: Test of ESG Favoritism

- ⇒ 1.7% annual performance of ESG funds due to strategic cross-fund subsidization

Patterns of ESG Favoritism

- **ESG Fund Characteristics**
stronger evidence for favoritism of funds that have *lower YTD return* compared to their style benchmark and *higher dollar value of fees*
- **Regular Fund Characteristics**
stronger evidence for favoritism at the expense of funds that are *lower value* to their families, e.g.: *older* funds and funds with *lower ESG score*
- **Family Characteristics**
stronger evidence for favoritism in families that are *smaller* (AUM & number of funds) and *older*

Strategic Timing of ESG Favoritism

$$\text{Net_return}_{i,t}^{ESG} - \text{Net_return}_{j,t}^{non-ESG} = \alpha + \beta \text{Same_family}_{i,j} + \gamma \text{Same_family}_{i,j} \times X_{i,j,t} + \zeta \text{Same_style}_{i,j} + \text{Controls} + \epsilon_{i,j,t}, \quad (2)$$

where $X_{i,j,t}$ denotes a time-series variable representing climate change concerns or fund flow measures.

Climate Change Concerns

	(1)	(2)
Same family	0.106*** (0.014)	0.108*** (0.011)
Same family × Post COP21	0.082*** (0.017)	
Same family × MA ₁₂ MCCC		0.101*** (0.012)
Same style	0.001 (0.016)	-0.006 (0.015)
Controls	Yes	Yes
Year FE	Yes	Yes
Family FE	Yes	Yes
Style FE	Yes	Yes
Observations	192,914	187,817
Adjusted R ²	0.016	0.018

Table 3: Climate Change Concerns and ESG Favoritism
MCCC denotes Media Climate Change Concerns by Ardia et al. (2023)

Fund Flows

	(1)	(2)
Same family	0.151*** (0.010)	
Same family × Net Flows	-0.019*** (0.003)	
Same family × Flow Outperf.		0.084*** (0.025)
Same family × Flow Underperf.		0.208*** (0.024)
Same style	0.004 (0.016)	0.005 (0.016)
Controls	Yes	Yes
Year FE	Yes	Yes
Family FE	Yes	Yes
Style FE	Yes	Yes
Observations	184,499	184,485
Adjusted R ²	0.019	0.016

Table 4: Fund Flows and ESG Favoritism

⇒ fund families engage more in ESG favoritism in times of greater environmental awareness

⇒ fund families reduce the cross-subsidization at times of high ESG fund inflows

Impact of ESG Fund Inception

$\text{Net_return}_{i,k,t}^{non-ESG} - \text{Net_return}_{j,l,t}^{non-ESG} = \alpha + \delta 1_{\{\tau_k > 0\}} + \text{Controls} + \epsilon_{i,j,t}, \quad (3)$
where τ_k measures the years since the inception of the ESG fund in family k . We restrict the sample to $\tau_k \in [-5, 5]$. Hence, $1_{\{\tau_k > 0\}}$ is a dummy variable which is 1, if an ESG fund in family k exists in period t , and 0 otherwise.

	(1)	(2)
Post ESG Fund Inception	-0.092** (0.042)	-0.094** (0.045)
Controls	No	Yes

Table 5: Impact of ESG Fund Inception

⇒ 9.4 bp monthly underperformance of within-family compared to outside-family non-ESG funds after ESG fund inception

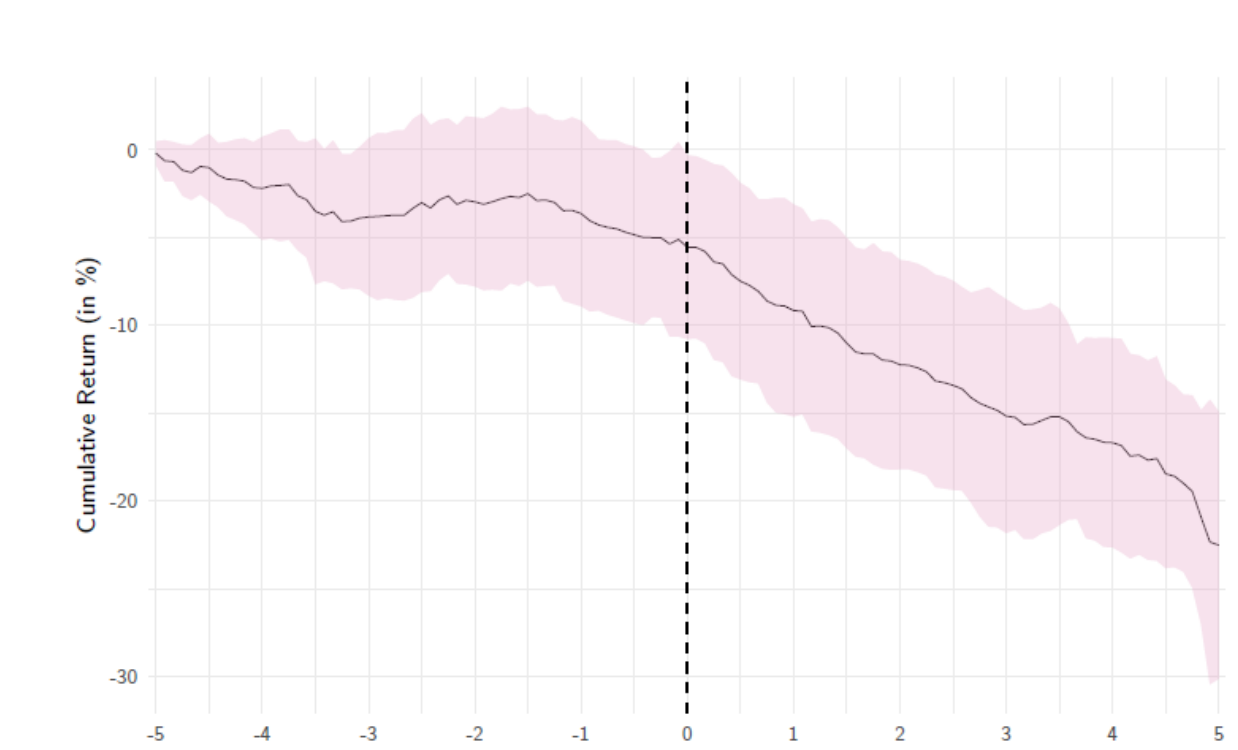


Figure 2: Cumulative Return Differential since ESG Fund Inception

Potential Mechanisms

- **Cross-trading strategies**
 - one-standard-deviation increase in opposite trades would enhance annual ESG fund performance by 0.24%
- **Preferential IPO allocations**
 - ESG funds are assigned more IPOs (11.8 IPO/fund for ESG, 2.6 IPO/fund for regular funds on average)
 - first-day return contributes significantly more to monthly performance for ESG funds