

Machine-learning the skill of mutual fund managers

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1. What are the research questions?

- Which—if any—characteristics of mutual funds and of the stocks they hold can help separate corn from chaff?

2. Why are the research questions interesting?

- U.S. equity mutual funds are enormous and rapidly growing, with increasing reliance from investors.
- Mixed results exist regarding the investment performance of actively traded equity mutual funds.
- → Is there any characteristics to separate good or bad fund?

3. What is the paper's contribution?

- Contribute to literature about predictors of fund performance
 - Prior: identified different directional effects for different components of flow and fund returns
 - Extension: MLs revives the predictive role of flows and shows fund flow predicts performance positively.
- Contribute to literature on fund return predictability
 - Prior: Abnormal returns are smaller and shorter
 - Extension: Show that the predictive power of fund momentum and fund flows for both short and long leg
- Contribute to literature on ML's use for asset pricing
 - Prior: Focus on returns prediction with held stocks' characteristics or fund-specific characteristics
 - Compare the prediction and trading benefits by varying the info set with same ML

4. What hypotheses are tested in the paper? list them explicitly

- H1: Fund momentum and fund flow are the most important predictors of future risk-adjusted fund performance.

(a) Do these hypotheses follow from and answer the research questions?

Yes

(b) Do these hypotheses follow from theory or are they otherwise adequately developed? Please explain the logic of the hypotheses (use visualization if possible)

- Some investors can detect skill and (re)allocate their investment towards skilled managers
- Fund families attract flows through marketing rather than—or in addition to—through investment skill

5. Sample: comment on the appropriateness of the sample selection procedures

- Use equity mutual funds are reasonable

6. Dependent and independent variables: comment on the appropriateness of variable definition and measurement (focus on the key dependent variables and independent variables)

- The selection of characteristics is reasonable. However, this paper can test more stock characteristics.

7. **Regression/prediction model specification: comment on the appropriateness of the regression/prediction model specification**
 - The feedforward network method is appropriate.
8. **What difficulties arise in drawing inferences from the empirical work**
 - The empirical work is rigorous
9. **Describe at least one publishable and feasible extension of this research**
 - New stock factor for stocks held by high performance funds