Information Percolation, Momentum and Reversal

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Abstract: We propose a joint theory of time-series momentum and reversal based on a rational-expectations model. We show that a necessary condition for momentum to arise in this framework is that information flows at an increasing rate. We focus on word-of-mouth communication as a mechanism that enforces this condition and generates short-term momentum and long-term reversal. Investors with heterogeneous trading strategies—contrarian and momentum traders—coexist in the marketplace. Although a significant proportion of investors are momentum traders, momentum is not completely eliminated. Word-of-mouth communication spreads rumors and generates price run-ups and reversals. Our theoretical predictions are in line with empirical findings.

JEL classification: G11, G12, G14.

Keywords: Asset pricing; Momentum; Information percolation; Equilibrium.

The authors are grateful for comments received from Bruce Carlin, Mike Chernov, Nicolae Gârleanu (WFA discussant), Cam Harvey, David Hirshleifer, Steve Heston, Aditya Kaul, Hanno Lustig, Avanidhar Subrahmanyan, Mungo Wilson, Russ Wermers, Fernando Zapatero, G. William Schwert (the editor), two anonymous referees, and from seminar and conference participants at Kellogg School of Management, University of Lausanne, Boston University, MIT Sloan School of Management, the Princeton-Lausanne Workshop on Quantitative Finance, HEC Winter Finance Workshop, UCLA Anderson, Southern California Finance Conference, Miami Behavioral Finance Conference, Banque de France, Florida International University, the 17th SGF Conference, the 2014 SFS Cavalcade, the 10th Annual Asset Pricing Retreat, the 2014 WFA meetings, the 2014 World Finance Conference, the 2014 NFA conference, the 2015 Jackson Hole Finance Conference, UIUC, Stanford GSB, 2016 SED, and 2016 Gerzensee. Financial support from the Swiss Finance Institute, NCCR FINRISK of the Swiss National Science Foundation, UCLA, and University of Maryland is gratefully acknowledged.

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