Out-of sample MSE, excess bond return

12-Dec

With all 25 lags						
AR lags	AR MSE	y variable	model	NG		
1-13	0.0442	yr2	LASSO 1	0.0627		
			LASSO 2	0.0626		
			LASSO 3	0.0626		
1-25	0.0424	yr3	LASSO 1	0.0743		
			LASSO 2	0.0747		
			LASSO 3	0.0747		
1-25	0.0467	yr4	LASSO 1	0.0799		
			LASSO 2	0.0802		
			LASSO 3	0.0802		
1-25	0.0530	yr5	LASSO 1	0.0918		
			LASSO 2	0.0903		
			LASSO 3	0.0903		

With only Significant lags						
AR lags	AR MSE	y variable	model	NG		
1, 2, 5, 12, 13	0.0443	yr2	LASSO 1	0.0585		
			LASSO 2	0.0566		
			LASSO 3	0.0551		
1, 2, 3, 4, 12, 13, 14, 24, 25	0.0459	yr3	LASSO 1	0.0728		
			LASSO 2	0.0719		
			LASSO 3	0.0719		
1, 2, 12, 13, 14, 24, 25	0.0520	yr4	LASSO 1	0.0781		
			LASSO 2	0.0764		
			LASSO 3	0.0764		
1, 2, 3, 12, 13, 14, 24, 25	0.0608	yr5	LASSO 1	0.0900		
			LASSO 2	0.0849		
			LASSO 3	0.0860		

Note:

After excluding insignificant lags, the out-of-sample M.S.E of AR increase, of LASSO decrease; but AR is still smaller than LASSO. Since NG, AIC, BIC (integration specification) have the same results for M.S.E, I only included NG this time.