

Left-Digit Bias, Investor Attention and Trading Behavior

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Abstract

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Although there is by now a large literature in finance addressing the question of when people *don't* like to sell stocks – specifically focusing on the disposition effect, the distaste for selling stocks at a nominal loss – beyond this strong regularity there is very little research focusing on when, exactly, investors *do* sell stocks. Are there specific events that trigger the sale of a stock? Recent research (Akepanidaworn et al., 2019), which finds that the buy decisions of professional traders are quite sensible – the stocks they buy are more likely to rise in value than those they don't buy – but that their sell decisions are worse than random, further highlights the need for a better understanding of when stock sales occur.

While not providing a comprehensive theory, nor a broad empirical investigation, of when people sell stocks, in this paper we address one event that, we predicted and found, has a substantial effect on sales: People are significantly – xx% – more likely to sell stocks when their price crosses a round-number price threshold from below – e.g., rising from below \$30 per share to above \$30 per share. By the same token, we find that investors are less likely to sell stocks immediately after they cross a round number threshold from above. We document these interrelated patterns using a data set of transactions made by online retail investors, demonstrate its robustness across different empirical inspections, and rule out limit orders as an alternative explanation.

Left-digit bias is the tendency to focus on the leftmost digit of a number while paying less attention to other digits (Poltrone and Schwartz, 1984). Prior research on the left-digit bias has shown automobiles depreciate disproportionately when their mileage crosses a around number threshold. Research on physician decision making likewise find that patients hospitalized with acute myocardial infarction 2 weeks after, as compared with 2 weeks before, their 80th birthday were significantly less likely to undergo coronary-artery bypass graft surgery. And research (Shlain, 2018) shows not only that 99 cent pricing works – that consumers respond to a one cent increase of \$.99 to \$1.00 as if it was a 15-25 cent difference, but also that firms exploit this bias less than they would if they were maximizing profits. Our contribution is to show that the left-digit bias strongly affects the behavior of investors.

1 Data

Data were provided by Barclays Stockbroking, an execution-online brokerage service operating in the United Kingdom. The data cover the period April 2012 to March 2016 and include daily-level records of trades and quarterly-level records of portfolio positions.¹ The data also include a dummy variable, at daily frequency, denoting whether the investor made a login to their account on the day. The daily-level login dummy variable covers all days, including days on which the market is closed such as Sundays and public holidays, which we use later in our analysis. We combine the daily-level records of trades with the quarterly-level records of portfolio positions, together with stock price data from Datastream, to calculate the value of each stock position in an investor's portfolio on each day of the sample period.

1.1 Sample Selection

As a first step, we apply a series of data cleaning sample restrictions which restrict the data to active accounts with trading histories during the data period for which we can match price and demographic data. Details of this first stage of data cleaning are shown in Table 1. The unrestricted sample as received from Barclays contains 155,300 accounts. In this version of the paper we draw a 60% random sample of accounts for analysis.

The unit of observation in the data is an account \times stock \times day, i.e. an observation per investor per stock holding per day. We focus our analysis on two subsets of this universe of account \times days, specifically login-days and sell-days. We define a login-day as an observation which is paired with a login and a sell-day as an observation which is paired with a sale event on the day from the portfolio (of the stock, or of a different stock held in the account on the same day). The sample of accounts together provides a total of approximately 135 million login-days and approximately 100,000 sell-days.

We then apply six data cleaning restrictions to obtain a baseline sample, which are applied to the data at the account level unless otherwise noted. We apply these restrictions in order to limit the sample to the minimum variables required for analysis. First, we drop observations

¹ During the data period the brokerage operated only through an online interface. Barclays have subsequently introduced a mobile phone trading app.

for which the account is inactive, defined as a one-year period in which the investor makes fewer than two logins or two transactions. Where an account does not meet this restriction, we drop all observations for the relevant year.² Second, we remove observations where a matched price is not available from Datastream. Third, we remove observations for all account \times days in which there are fewer than two stocks within the portfolio. Fourth, we remove all observations for accounts for which demographic data is missing (i.e., we drop all investor \times stock \times days for that account from the sample). Fifth, we remove the days in which the investor purchased the stocks (starting position days) as speculative day trading is rare among retail investors. Finally, we remove accounts with extreme portfolio values (99 percentile of average portfolio value).

Table 1 reports the effects of these steps in sample selection. The table reports the number of accounts dropped due to each step in the sample restrictions, together with the number of login events and sell events (account \times stock \times days) dropped at each step. From the starting sample of approximately 92,000 accounts, the largest drop of accounts is due to dropping approximately 29,000 inactive accounts (31.6% of accounts). After applying all six sample restrictions the resulting baseline sample retains 58% of accounts from the unrestricted sample. Our sample restrictions tend to drop accounts with below-average logins and sales (due to the largest drop being the drop of inactive accounts), hence the baseline sample retains 63% of login-days and 69% of sell-days.

As a second step, we restrict to a sample for analysis. Two motivations drive our sample selection. First, responses to changes in left-digits are only detectable in a sample of observations for an investor in which the left-digit changes. A key element in our analysis therefore is to draw a “price increasing sample” and a “price decreasing sample”, which we define below. Moreover, we show that the response of changes in left-digit is very different depending upon when the stock is increasing in value or decreasing in value over time, in particular, selling activity occurs when prices cross left-digits from below and from above.

Second, responses to changes in left-digits are contingent upon the investor observing the change in left-digit. For example, a stock that changes left-digit over a holding period

² In cases where the account satisfies this sample restriction in other years, we keep those years of observations in the data set.

in which the investor does not make a login to the account is much less likely to be noticed compared with a change in left-digit which occurs between login days within a holding period. We therefore apply sample restrictions in order to obtain a series of observations in which the price crosses the left-digit between login-days.

We define the price increasing sample and the price decreasing sample as follows. First, using the example of the price increasing sample, we identify the first day in each calendar quarter on which an investor made a login to their account.³ We then define the price increasing sample as the set of login days within the quarter for which the prices on subsequent login days were always above the price on the first day and the left-digit had changed within the quarter on at least one subsequent login-day. This sample therefore provides a series of login-days through the quarter in which the price of the stock had broached a left-digit change on at least one of the login-days.

We define the price decreasing sample using parallel sample restrictions applied to decreasing prices. Hence the price decreasing sample is defined as the set of login days within the quarter for which the prices on subsequent login days were always below the price on the first day and the left-digit had changed within the quarter on at least one subsequent login-day. Our samples are based on quarters and individual \times login days during the quarter.

1.2 Summary Statistics

Table 2 provides summary statistics for account holder characteristics and account characteristics in the baseline sample. Approximately 81% of account holders are male and the average age of an account holder is 55 years. Account holders have held their accounts with Barclays for, on average, approximately five years, with approximately 25% of account holders having held their account for over seven years. The average portfolio value is approximately £71,000 (median £19,000), with accounts containing of average 6 stocks (median 4 stocks). Investors in the baseline sample overwhelmingly hold positions in a few common stocks. Holdings of mutual funds account for only 8% of the average investor's portfolio. Investors in the sample login approximately once per five days, but trade much less frequently at a frequency of

³ We show later that results are unchanged when we modify the period that defines a sample to either a month, or a year, instead of a quarter.

approximately once every thirty days.

Table 3 describes the price data for the baseline sample, price increasing sample and price decreasing sample. The baseline sample provides approximately 84.6 million login-day observations (the bottom row of Table 1). Panel A summarises prices of all observations paired with login-days and sell-days in the first two rows, together with price of stocks sold in the third row. The mean price of a stock in the sample of login-days is approximately £8, with a median of £3.

Panels B and C summarise prices for stocks from observations in the price increasing sample and observations in the price decreasing sample. Note, there are four units of left-digit in the data, pennies, tens of pennies, pounds and tens of pounds (there are only a few cases of hundreds of pounds). So, the left-digit changes of interest are pence to tens of pence, tens of pence to pounds, and pounds to tens of pounds (plus a few cases of tens of pounds to hundreds of pounds). The most common price range for observations in both the price increasing sample and the price decreasing sample is the £1.1 to £10.1 range, which accounts for 54.8% of observations in the price increasing sample and 43.7% of observations in the price decreasing sample.⁴

2 Results

2.1 Main Results

Our main result is shown in Figure 1, which shows the probability of selling a stock by the leftmost price digit of the stock. The left-side plots in panels A and B take the samples of observations from the price increasing sample and price decreasing sample and stack observations (investor \times stock \times login days) by the leftmost two digits of the observation, centred on the change in left digit between some integer X and the next $Y = X + 1$. For example, an investor holds a stock and, in the price increasing sample, sees prices on login-days of 18p, 22p and 26p. These observations stack onto the x-axis at $X8$, $Y2$ and $Y6$, centring on the change in left-digit from 1 to 2 with $X = 1$, $Y = 2$. Another investor holds a stock, in the price increasing

⁴ Most stocks in the samples are prices in the range £1.10 to £10.10. A histogram of prices for all investor \times login days is shown in Figure A1.

sample, sees prices on login days of 361p, 389p and 430p. These observations stack onto the x-axis at X6, X8 and Y3, centring on the change in left-digit from 3 to 4, with $X = 3$, $Y = 4$.⁵ One stock *times* day can contribute to multiple observations, if more than one investor makes a login to their account on the day. By way of contrast, a stock \times day might contribute no observations if no investor makes a login to their account on the day.

The first clear pattern in the left-side plots is that the probability of sale jumps upwards when the stock crosses a left-digit from below in the price increasing sample, and the probability of sale jumps downwards when the stock crosses a left-digit from above in the price-decreasing sample. In the price increasing sample, the increase is from approximately 0.008 to 0.0014, a 75% increase, whereas in the price decreasing sample, the increase is from approximately 0.008 to 0.0012, a 50% increase.⁶

A second clear pattern in the left-side plot is that the probability of sale jumps upwards when the price crosses the left-digit, and remains elevated for the next adjoining units, in the price increasing sample Y2, Y2, Y3, ..., in the price decreasing sample X9, X8, X7, One explanation for this pattern is that the investor's response to a change in left-digit does not necessarily occur when the price crosses Y0, as the investor may not observe the stock at price Y0 if they do not make a login at that point in time. Instead, the investor may only observe the change in left-digit by the point the stock reaches, e.g. in the price increasing sample Y1, Y2, Y3,

The right-side plots in each panel illustrate the probability of sale across the full range of leftmost two digits of prices in the sample, unstacking the data from the left-side plot by leftmost two digits. In the example above, the series of prices 18p, 22p and 26p enter into the x-axis bins for 18, 20 and 26; while the series of prices 361p, 389p and 430p enter into the x-axis bins for 36, 38 and 43. In both panels, each bin in which the right-digit of the leftmost two digits ends 9 is colored blue, with each bin in which the right-digit of the leftmost two digits ends 0 is colored red.

The clear pattern in the right-side plots is that the probability of sale jumps when the

⁵ Stocks that cross multiple left-digits in the quarter contribute observations centred around each left-digit change.

⁶ The probability of sale is higher in the price increasing sample compared with the price decreasing sample, indicating that investors are more likely to sell stocks when prices increase compared with when prices decrease.

price crosses a leftmost digit from below in Panel A, and from above in Panel B. This is seen across the broad range of leftmost two digits of prices. The plot also makes clear the “ladder” pattern whereby the elevated probability of sale at each crossing of the leftmost digit steps down as the price moves further upwards (in Panel A) or downwards (in Panel B), with the probability jumping again at the next change in leftmost digit.

This pattern in the probability of sale when a stock price crosses a leftmost digit is *not* seen when one pools all observations. Pooling all observations stacks observations from price increasing series and price decreasing series into a single figure. Figure A2 reproduces the figures from Figure 1 in the sample of all observations [JUST TO CHECK WE ARE STACKING UP PANELS A AND B OF THE MAIN FIGURE?]. The left-side plot shows no discontinuity in the probability of sale when price crosses the leftmost digit. In the figure, the probability of sale is slightly higher at lower prices, but the difference in probability across the x-axis very small (in the range 0.0079 to 0.0086), compared with the jump in probability at the crossing of the left-digit of 0.006 in the price increasing sample and 0.004 in the price decreasing sample. The right-side plot also shows no difference in the probability of sale between the red bars and blue bars.

We estimate the size of the left-digit effect in Table 4 and Table 5, which show regression estimates for the price increasing sample and price decreasing samples respectively. The dependent variable in each regression is a dummy variable for whether the observation is a sale (either partial or total sale). The specification in Column 1 includes only a dummy for whether the stock price is Y_0 or above. The coefficient on the dummy variable is 0.0044 in the price increasing sample. This implies an increase in the probability of sale when the stock price crosses the left-digit from below, evaluated against the constant term, of 52%. The coefficient on the dummy variable is -0.0024 in the price decreasing sample. This implies an increase in the probability of sale when the stock price crosses the left-digit from above, evaluated against the constant term, of 24%.

Additional columns in both tables add further controls to the econometric specification. The specification in Column 2 of each table adds slope terms for the range $Y_0 - Y_5$ and $X_6 - X_9$. Subsequent Columns add a series of fixed effects: day fixed effects, industry fixed effects (using

industry classifications based on [WHAT?]), account fixed effects and finally stock fixed effects. The specification in Column 5 therefore exploits within-investor, within-stock variation in the probability of sale, conditioning on day differences in the likelihood of sale. In this richest specification, the coefficients on the dummy variable of 0.0061 and -0.0040 imply an increase in the probability of sale when the stock price crosses the left-digit from below of 71% and an increase in the probability of sale when the stock prices crosses the left-digit from above of 40%.⁷

The main results in Figure 1 pool over leftmost digits in pence, pounds and tens of pounds.⁸ In further analysis, we reproduce the figures show in Figure 1 and regression estimates in Table 4 and Table 5 for separate samples in which stock prices are in pence, pounds and tens of pounds. Figure 2 and Figure 3 each show three panels with the sample split into observations with prices in the range £0.11 to £1.01 in Panel A, £1.01 to £10.1 in Panel B, and £11 to £101 in Panel C of each figure. The number of observations is uneven distributed across these subsample, with approximately 50% of observations from the main samples in Panel B of each figure and only 7% of observations from the main sample in Panel C of each figure. The jump in probability of sale when the price crosses the leftmost digit from below, or when the price crosses the leftmost digit from above, is seen in each sub-sample.⁹ Table A1 and Table A2 report regressions for the subsamples by pennies, pounds and tens of pounds. Estimates from these models show very similar results to the main regression estimates.

2.2 Robustness Tests

2.2.1 Limit Orders

Why do we observe the jump in probability of sale when the price crosses a left-digit? One potential explanation for the pattern seen in the price increasing sample is that investors set limit orders with strike prices at round numbers (e.g., base-10 or base-100 numbers). Two

⁷ These percentage increases in the probability of sale are calculated from the coefficient on the constant term in Column 1 of each table.

⁸ There are very few observations of stock prices in which the leftmost digit is in hundreds of pounds.

⁹ The jump in probability of sale when the leftmost digit crosses zero is less clear in Panel C of each plot, which contains the highest priced stocks in each sample, and contributed the smallest percentage of observations in each main sample.

observations of the patterns seen in Figure 1 suggest this is unlikely to explain the pattern we observe in full. First, while the use of limit orders might contribute to the pattern observed in Panel A, it would not explain the pattern observed in Panel B. Second, in liquid markets we would expect limit order to be executed at the strike price which, if a round number, would cause a spike in the probability of sale only at Y_0 in the illustrations, not an elevated probability of sale at Y_1, Y_2, Y_3, \dots . There are, however, two counter-arguments to this. First, if individuals place limit order outside of trading hours, the price may have risen further above Y_0 by the time the brokerage executes the order (overnight orders form a queue on the broker's order book, and orders appearing later in the queue may execute at a price further away from the strike price). Second, if the stock is illiquid the brokerage may only be able to execute the order once the price has risen further above Y_0 (again, due to queueing).

As a first set of robustness tests, we therefore exclude observations of sales which have a higher probability of being placed as a limit order. For example, the share of limit orders in the sample of orders placed out-of-hours is likely to be higher than the share of limit orders in the sample of orders placed during market hours. We exclude two sets of observations. First, observations of sales where the order is completed by the broker outside UK market hours (8am to 4.30pm). Second, observations of sales where the investor may a login to their account on the previous day, but no sale was executed on the previous day (but may have placed a sell order using a limit order). Panels A and B of Figure 4 show the impact of implementing these exclusions. The pattern seen in the main analysis, of a jump in the probability of sale when the price crosses the leftmost digit from below in the price increasing sample, is seen in both panels.

Second, we restrict the sample to only the most liquid stocks, focusing on stocks in the FTSE100 only. In this sample, the likelihood of round-number limit orders executing at their strike price is higher compared with less liquid stocks in the FTSE250 or FTSE All-Share indices. If limit orders fulfilling at round number strike prices are responsible for the jump in probability of sale when the leftmost digit crosses zero from below, we should therefore see a sharp "spike" in sales at Y_0 in the sample. Panel C, which restricts to FTSE100 stocks only, shows an elevated probability of sales at prices Y_1, Y_2, Y_3, \dots in the same way as seen in the main results. This

again suggests that the pattern we see in the main results is not explained by investors using limit orders.

Third, we follow an approach to identifying limit order trades suggested by Linnainmaa (2010). Linnainmaa (2010) explores the role of limit orders as a potential explanation for the existence of the disposition effect, arguing that the disposition effect (among other features of individual investor trading behavior) can be explained by investors' use of limit orders. The paper proposes a method for identifying trades more likely to have been executed via limit orders.

The approach proceeds as follows. We first take all observations of buys and sell events for each investor in the price increasing sample. We then regress a buy-versus-sell indicator (a dependent variable that takes the value of one when an investor sells a stock and the value of zero when an investor purchases a stock) against the daily return of an stock, for each investor. According to Linnainmaa's method, the same-day return coefficient is significantly positive for limit-order trades, but significantly negative for market-order trades (because individuals who are net buyers when the stock price falls, and net sellers when the stock price rises, are likely to be limit-order traders; while individuals who submit market orders often trade in the direction of the same-day return, and hence against limit order traders). Using this method, we are able to exclude from the sample investors for whom a positive coefficient is estimated from the analysis (3,021 investors).

We show the effect of excluding limit order investors on our main results in Panel D of Figure 4. The pattern seen in the main sample is unchanged in this further restricted sample, with a clear increase in the probability of sale when the price increases through a change in the leftmost digit. We show regression estimates using each of the samples in Figure 4 in Table A4 and Table A4. The regression results show the same patterns as those using the main sample.

2.3 Simulation

The main results are shown using samples of stocks which increase, or decrease, in price, crossing a left-digit within the period of observations (a calendar quarter). This sample selection therefore contains a large proportion of observations with prices at or just above Y_0 in the price

increasing sample, or at or just below Y_0 in the price decreasing sample, as this is the minimum criteria for inclusion in the price increasing sample, or price decreasing sample, respectively. Hence, a large share of the total number of observations of sales in each sample is clustered around Y_0 .

This sample selection should not mechanistically create a higher *probability* of selling a stock at Y_0 compared with other leftmost two digit prices in the range $X_6 - Y_5$ used in the analysis. However, to test for this we conduct a simulation analysis in which we assign sales randomly to investor \times stock \times days in each sample. If our main results are due to sample selection, we should see the jumps in probability of sale when sells are randomly assigned across observations. Figure A3 shows that with randomly allocated sales we see no evidence of discontinuity in the probability of sale when the leftmost digit changes. This suggests that our main result does not arise mechanistically due to the sample selection.

2.4 Sensitivity Tests

2.4.1 Variation in Time Period

We test the sensitivity of our main estimates to the time period over which changes in the leftmost digit are calculated in the price increasing sample and the price decreasing sample. In our main analysis this time period is a calendar quarter, with observations restricted to the set of login days within the quarter for which the prices on subsequent days were always above the price on the first day and the left-digit had changed within the quarter at least once on a subsequent login-day.

We show the sensitivity of our results to shortening the time period for this sample restrict to either one month, or extending the sample restriction to one year in Figure A4 and as a year in Figure A5. The patterns seen in these figures are very similar to those seen in the main analysis. Table A5 reports for summary statistics for the stock prices in the monthly and yearly samples, with Table A6 and Table A7 showing regression estimates.

2.4.2 *Sell-Day Sample*

We also test the sensitivity of the main results to restricting the sample to sell-days instead of login-days. One could conduct the analysis of all days, login-days, sell-days or some other restriction to types of days. In our main analysis we use login-days as these are days on which the probability of an investor paying attention to the prices of stocks in their portfolio is higher, because they make a login to the account. We further restrict to sell-days as on sell-days we might expect an even higher probability that the investor pays attention to the prices of stocks in the portfolio, given that they make a sale.

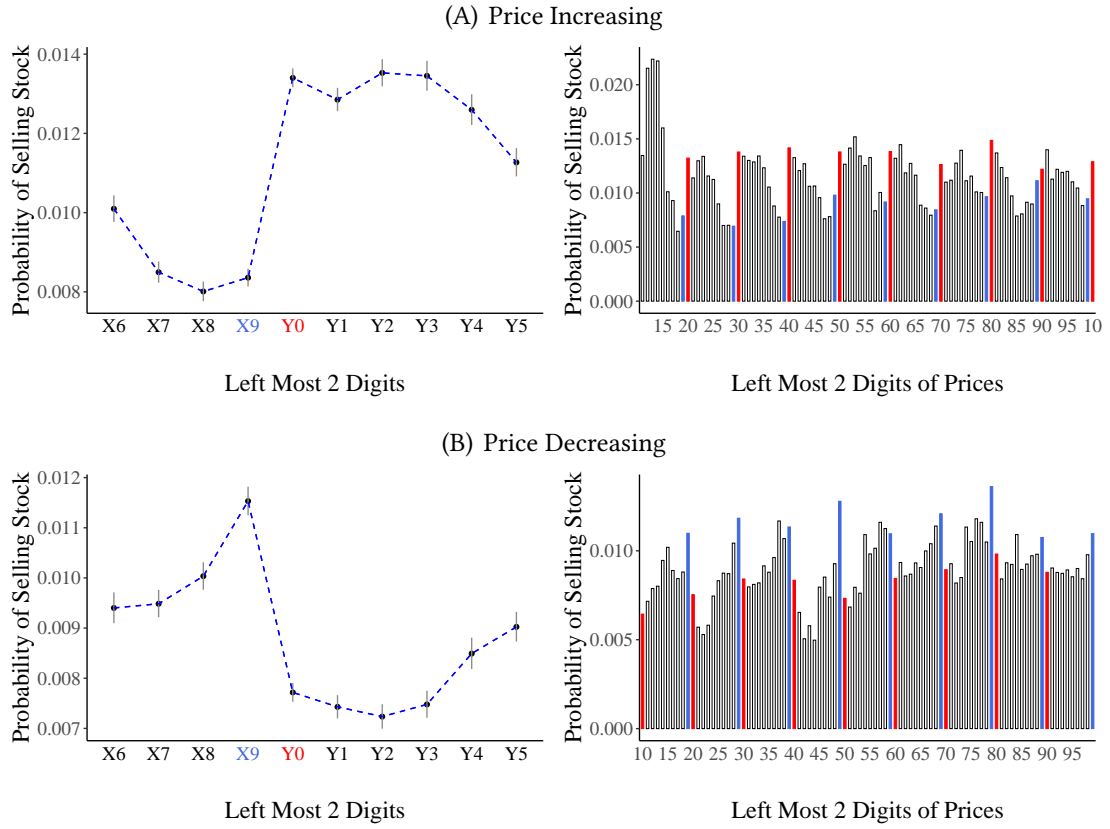
We show results when restricting the baseline sample to sell-days in Figure A6. The same pattern is seen as in the main analysis, of a jump in the probability of sale when the price crosses the leftmost digit from below in the price increasing sample, and a jump in the probability of sale when the prices crosses the leftmost digit from above in the price decreasing sample. Regression estimates are shown in Table A8 and Table A9. We also show results from this analysis in sub-samples by pennies, pounds and tens of pounds in Figure A7 and Figure A8, with regression analysis for these sub-samples shown in Table A10 and Table A11.

3 **Who Exhibits Left-Digit Bias?**

We use sample splits and test for differences in the left-digit effect by various investor characteristics

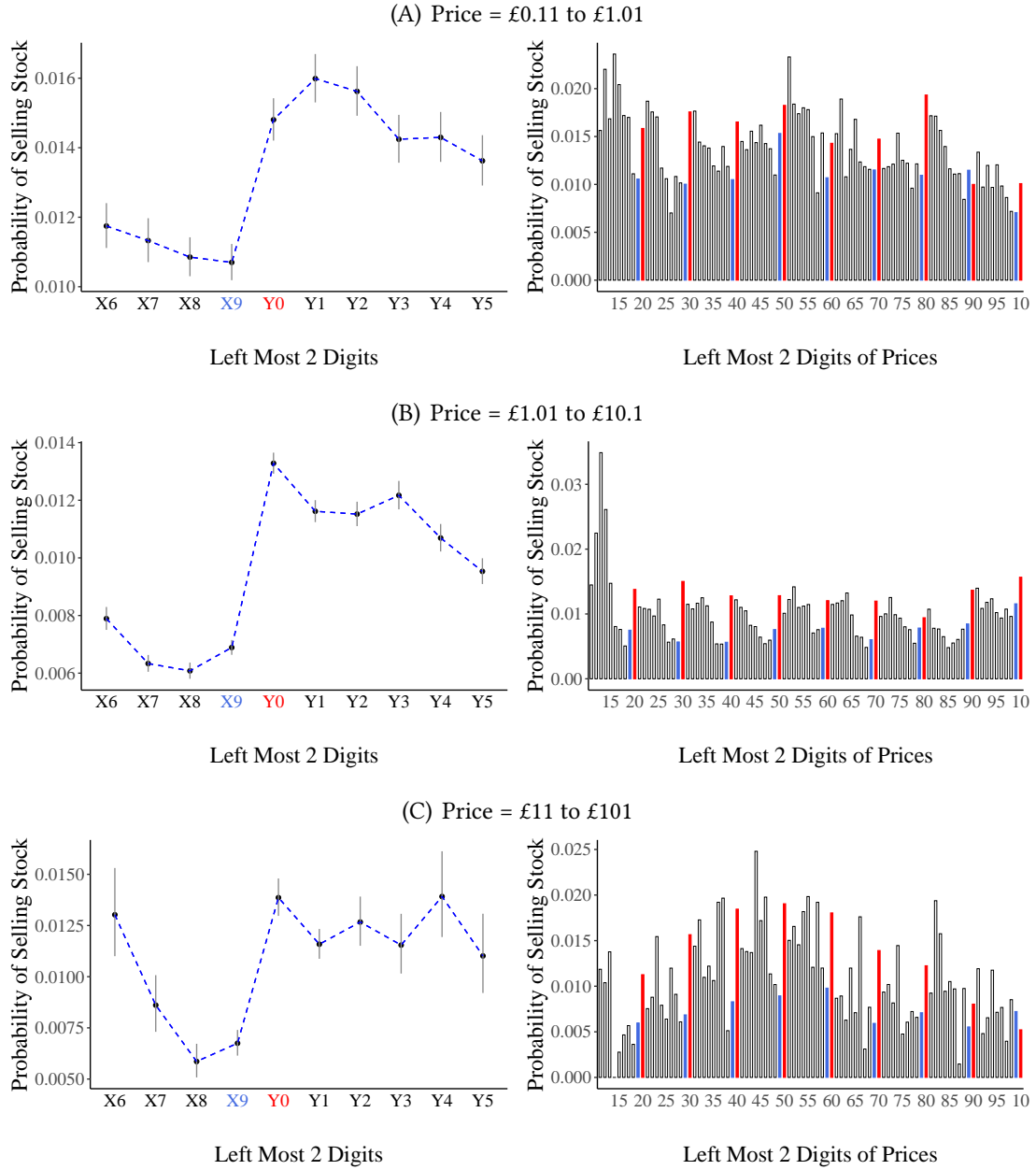
- Age: stronger among younger investors (Table 6).
- Gender: no differences (Table 7).
- Portfolio value: stronger among small portfolios (Table 8).
- Tenure: stronger among younger accounts (Table 9).
- Number of Stocks: stronger with fewer stocks (Table 10).

Figure 1: Leftmost Stock Price Digit and Probability of Sale, Quarterly Sample



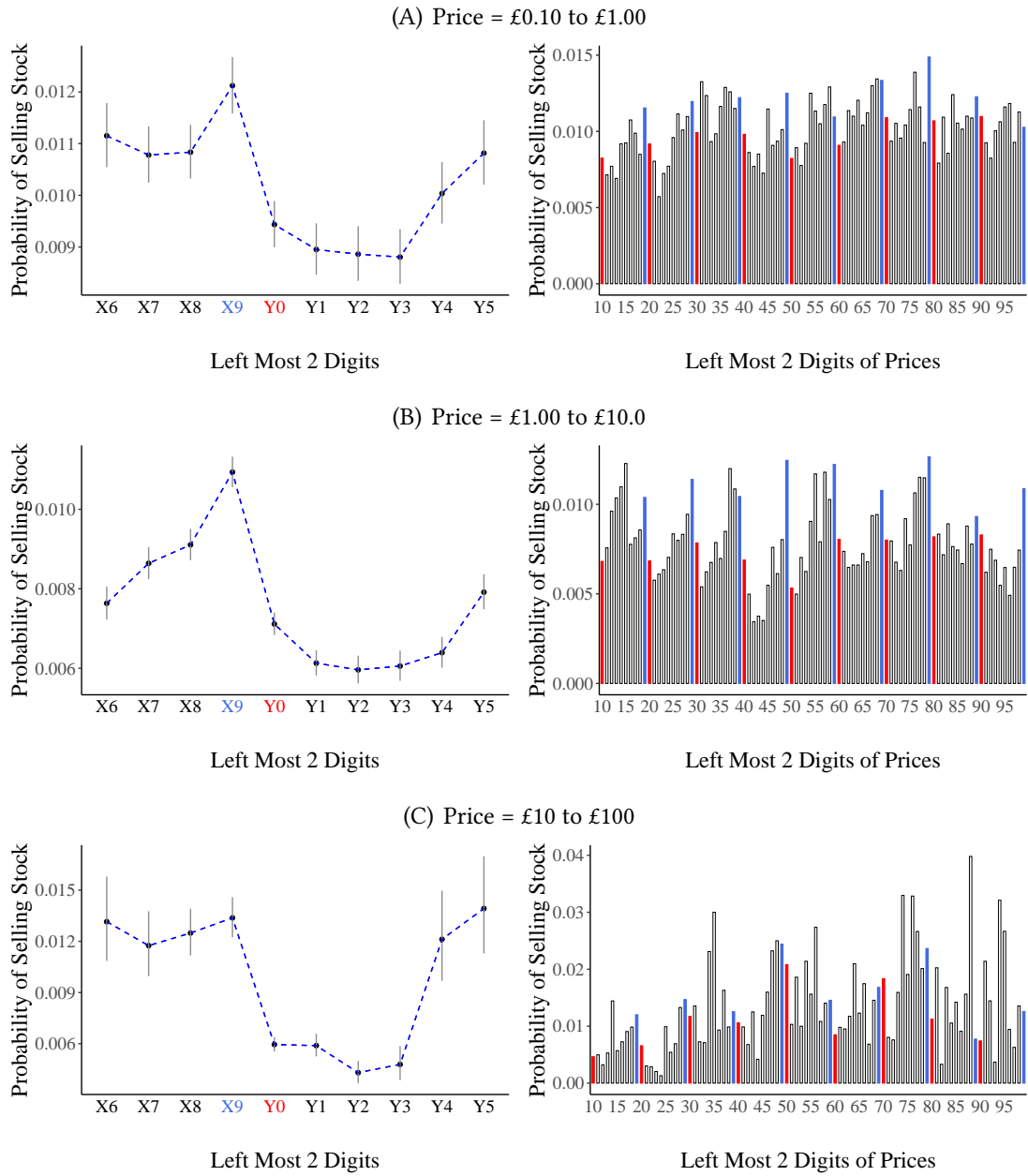
Note: $\pounds Y$ in the X-axes is equivalent to $\pounds X + 1$ (e.g., $\pounds X9$ could include $\pounds 0.19$, $\pounds 1.9$, $\pounds 19$, etc., while $\pounds Y0$ could include $\pounds 0.20$, $\pounds 2.0$, $\pounds 20$, etc.).

Figure 2: Leftmost Stock Price Digit and Probability of Sale
Prices Increasing Sample by Price Range



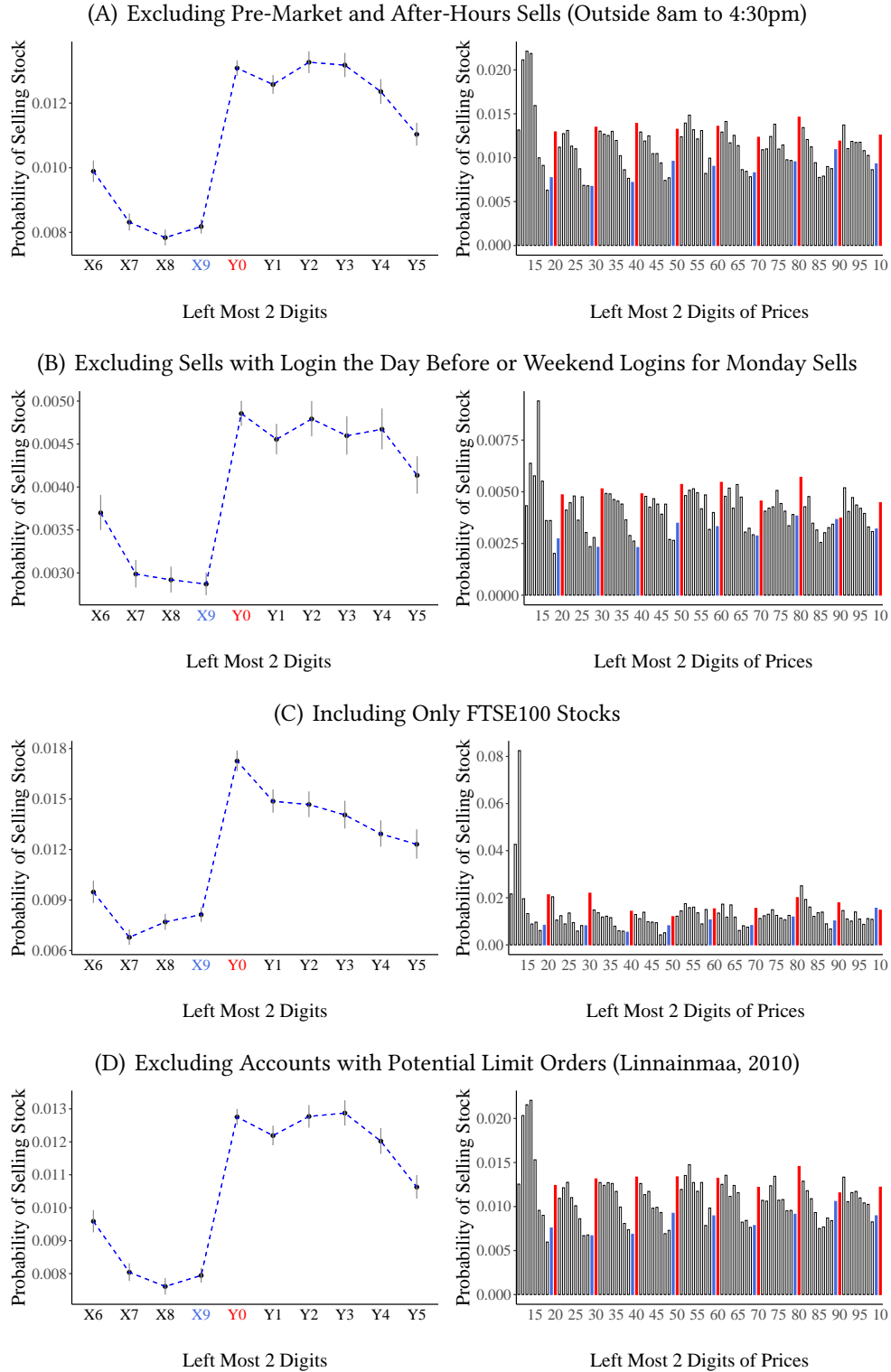
Note: £Y in the X-axes is equivalent to £X + 1 (e.g., £X9 could include £0.19, £1.9, £19, etc., while £Y0 could include £0.20, £2.0, £20, etc.). Panels A, B and C show equal size bins of 1p, 10p and £1, respectively. Panel A corresponds to 25% of the observations in the prices increasing sample; Panel B, to 55%; and Panel C, to 8%.

Figure 3: Leftmost Stock Price Digit and Probability of Sale
Prices Decreasing Sample by Price Range



Note: £Y in the X-axes is equivalent to £X + 1 (e.g., £X9 could include £0.19, £1.9, £19, etc., while £Y0 could include £0.20, £2.0, £20, etc.). Panels A, B and C show equal size bins of 1p, 10p and £1, respectively. Panel A corresponds to 27% of the observations in the prices decreasing sample; Panel B, to 43%; and Panel C, to 7%.

Figure 4: Leftmost Stock Price Digit and Probability of Sale,
Prices Increasing Sample Limit Order Robustness Tests



Note: £Y in the X-axes is equivalent to £X + 1 (e.g., £X9 could include £0.19, £1.9, £19, etc., while £Y0 could include £0.20, £2.0, £20, etc.). Panels display different sample restrictions to exclude sells corresponding to limit orders. Panel A drops sells executed when the market was closed. It also exclude potential discretionary trades (high frequency trades executed on the same stock, at the same time and at the same price that would likely correspond to sells arranged by Barclays discretionary service). Panel B excludes sells with a preceding login day. Panel C exclude non-liquid stocks, and Panel D excludes potential limit orders following Linnainmaa (2010) methodology. Panel A drops 2.2% of sells, Panel B drops 64.7% of sells, Panel C drops 75.9% of sells, and Panel D drops 11.4% of sells.

Table 1: Sample Selection

| | Accounts | Logins | Sells |
|----------------------------------|----------|-----------|--------|
| Unrestricted Sample | 91817 | 135331214 | 993312 |
| <i>Drop due to:</i> | | | |
| Inactive Accounts | 28990 | 15951667 | 39075 |
| Unmatched Prices | 581 | 26014606 | 101667 |
| At Least Two Stocks in Portfolio | 5999 | 1444418 | 65638 |
| Missing Demographic Data | 2282 | 3980478 | 35724 |
| Starting Position Days | 40 | 726121 | 49899 |
| Portfolio outliers | 653 | 2631071 | 16339 |
| Baseline sample | 53272 | 84582853 | 684970 |

Note: The unrestricted sample contains 155,300 accounts. We use a 60% random sample of accounts. The table detail the steps in sample selection. Logins and Sells are at the account \times stock \times day level.

Table 2: Baseline Sample Summary Statistics

| | Mean | Min | p25 | p50 | p75 | Max |
|-------------------------------------------|--------|--------|--------|--------|--------|-----------|
| <i>A. Account Holder Characteristics</i> | | | | | | |
| Female | 0.189 | | | | | |
| Age (years) | 54.848 | 17.000 | 47.000 | 57.000 | 67.000 | 87.000 |
| Account Tenure (years) | 5.291 | 0.060 | 3.063 | 4.049 | 6.959 | 16.975 |
| <i>B. Account Characteristics</i> | | | | | | |
| Portfolio Value (£10000) | 7.106 | 0.000 | 0.654 | 1.911 | 5.347 | 265.820 |
| Investment in Mutual Funds (£10000) | 0.477 | 0.000 | 0.000 | 0.000 | 0.000 | 166.345 |
| Investment in Mutual Funds (%) | 7.862 | 0.000 | 0.000 | 0.000 | 0.000 | 12606.139 |
| Number of Stocks | 5.900 | 2.000 | 2.429 | 3.894 | 7.000 | 176.818 |
| Login days (% all days) | 18.749 | 0.076 | 4.261 | 11.528 | 28.603 | 100.000 |
| Transaction days (% all market open days) | 3.249 | 0.036 | 0.844 | 1.657 | 3.462 | 100.000 |
| N Accounts | 53272 | | | | | |

Note: This table presents summary statistics for the baseline sample of accounts. Age is measured at date of account opening. Account tenure is measured on the final day of the data period. Portfolio value is the value of all securities within the portfolio at market prices. Portfolio value, number of stocks and investment in mutual funds are measured as within-account averages of values at the first day of each calendar month in the data period. Login days is the percentage of days the account is open in the data period and the account holder made at least one login. Transaction days is the percentage of market open days the account is open in the data period and the account holder made at least one trade.

Table 3: Summary Stats, Quarterly Sample

| Panel (A): Baseline Sample | | | | | | | | |
|------------------------------------|------------|--------|----------|--------|----------|--------|----------|------------|
| | N | Mean | St. Dev. | Min | Pctl(25) | Median | Pctl(75) | Max |
| Price on Login Days £ | 84,582,853 | 7.392 | 24.028 | 0.000 | 1.144 | 2.989 | 7.348 | 15,051.630 |
| Price on Sell Days £ | 6,390,539 | 6.626 | 23.524 | 0.000 | 0.835 | 2.585 | 6.360 | 3,589.000 |
| Price of Stocks Sold £ | 684,970 | 7.069 | 28.262 | 0.000 | 0.844 | 2.645 | 6.479 | 2,057.994 |
| Panel (B): Price Increasing Sample | | | | | | | | |
| | N | Mean | St. Dev. | Min | Pctl(25) | Median | Pctl(75) | Max |
| All Stocks | 4,869,714 | 6.035 | 20.802 | 0.000 | 0.738 | 2.961 | 6.074 | 3,589.000 |
| Between £0.11 to £1.01 | 1,221,843 | 0.602 | 0.256 | 0.110 | 0.385 | 0.630 | 0.812 | 1.010 |
| Between £1.1 to £10.1 | 2,670,842 | 4.864 | 2.305 | 1.100 | 2.947 | 4.519 | 6.550 | 10.100 |
| Between £11 to £101 | 358,540 | 33.963 | 20.723 | 11.000 | 19.620 | 29.400 | 43.825 | 100.996 |
| Panel (C): Price Decreasing Sample | | | | | | | | |
| | N | Mean | St. Dev. | Min | Pctl(25) | Median | Pctl(75) | Max |
| All Stocks | 4,903,878 | 4.116 | 19.497 | 0.000 | 0.178 | 1.030 | 4.492 | 2,062.035 |
| Between £0.10 to £1.0 | 1,346,143 | 0.513 | 0.270 | 0.100 | 0.276 | 0.486 | 0.755 | 1.000 |
| Between £1 to £10 | 2,144,544 | 4.507 | 2.511 | 1.000 | 2.349 | 4.112 | 6.227 | 10.000 |
| Between £10 to £100 | 340,298 | 24.961 | 17.954 | 10.000 | 10.870 | 20.510 | 29.940 | 99.990 |

Table 4: Probability of Sale and Left Digit, Price Increasing Sample

| | <i>Probability of Sale_{ijt} = 1</i> | | | | |
|----------------------------------|----------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0044*** (0.0001) | 0.0055*** (0.0002) | 0.0050*** (0.0002) | 0.0055*** (0.0002) | 0.0061*** (0.0002) |
| Stock Digits Y0 to Y5 | | -0.0003*** (0.0000) | -0.0004*** (0.0000) | -0.0005*** (0.0000) | -0.0008*** (0.0000) |
| Stock Digits X6 to X9 | | -0.0005*** (0.0001) | -0.0003*** (0.0001) | -0.0003*** (0.0001) | -0.0002*** (0.0001) |
| Constant | 0.0086*** (0.0001) | 0.0080*** (0.0001) | 0.0077*** (0.0008) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 4,869,714 | 4,869,714 | 4,869,714 | 4,869,714 | 4,869,714 |
| R ² | 0.0004 | 0.0004 | 0.0017 | 0.0679 | 0.0728 |

Note: The unit of observation is an investor \times stock \times day. The samples is restricted to login days. We include only quarters in which the stocks increased in price (regarding the first observation of the quarter) and change the left most digit at least once during the quarter. Only those stocks that have changed the left most digit are included. Regressions fit an intercept for the change in the left most digit at X0 and two slopes for the left (with values in the range -3 to 0, corresponding to X6 to X9) and right (with values in the range 0 to 5, corresponding to Y0 to Y5) values. The constant shows the probability to sell the stock at when the second digit is 9 (X9). The second digit over threshold dummy shows the jump in probability when the first digit changes and so the second digit becomes 0 (X0). SE are clustered by account.

Table 5: Probability of Sale and Left Digit, Price Decreasing Sample

| | <i>Probability of Sale_{ijt} = 1</i> | | | | |
|----------------------------------|----------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | -0.0024*** (0.0001) | -0.0038*** (0.0002) | -0.0042*** (0.0002) | -0.0039*** (0.0002) | -0.0040*** (0.0002) |
| Stock Digits Y0 to Y5 | | 0.0002*** (0.0000) | 0.0003*** (0.0000) | 0.0004*** (0.0000) | 0.0004*** (0.0000) |
| Stock Digits X6 to X9 | | 0.0007*** (0.0001) | 0.0008*** (0.0001) | 0.0006*** (0.0001) | 0.0006*** (0.0001) |
| Constant | 0.0102*** (0.0002) | 0.0112*** (0.0002) | 0.0158*** (0.0012) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 4,903,878 | 4,903,878 | 4,903,878 | 4,903,878 | 4,903,878 |
| R ² | 0.0002 | 0.0002 | 0.0005 | 0.0675 | 0.0717 |

Note: The unit of observation is an investor \times stock \times day. The samples is restricted to login days. We include only quarters in which the stocks have not increased in price (regarding the first observation of the quarter) and have not changed the left most digit at least once during the quarter. Regressions fit an intercept for the change in the left most digit at X0 and two slopes for the left (with values in the range -3 to 0, corresponding to X6 to X9) and right (with values in the range 0 to 5, corresponding to Y0 to Y5) values. The constant shows the probability to sell the stock at when the second digit is 9 (X9). The second digit over threshold dummy shows the jump in probability when the first digit changes and so the second digit becomes 0 (X0). SE are clustered by account.

Table 6: Probability of Sale and Left Digit, Splitting by Median Age

| | Prices Increasing Sample | | Prices Decreasing Sample | |
|----------------------------------|--------------------------|------------------------|--------------------------|------------------------|
| | Below Median | Above Median | Below Median | Above Median |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0075*** (0.0003) | 0.0047*** (0.0002) | -0.0040*** (0.0002) | -0.0040*** (0.0003) |
| Stock Digits Y0 to Y5 | -0.0009*** (0.0001) | -0.0006*** (0.0001) | 0.0004*** (0.0001) | 0.0004*** (0.0001) |
| Stock Digits X6 to X9 | -0.0003*** (0.0001) | -0.0001 (0.0001) | 0.0007*** (0.0001) | 0.0004*** (0.0001) |
| Day FE | YES | YES | YES | YES |
| Industry FE | YES | YES | YES | YES |
| Account FE | YES | YES | YES | YES |
| Stock FE | YES | YES | YES | YES |
| Observations | 2,580,896 | 2,288,818 | 2,654,464 | 2,249,414 |
| R ² | 0.0866 | 0.0506 | 0.0869 | 0.0487 |

Note: The unit of observation is an investor \times stock \times day. The samples is restricted to login days. We include only quarters in which the stocks increased/decreased in price (regarding the first observation of the quarter) and change the left most digit at least once during the quarter. Only those stocks that have changed the left most digit are included. Regressions fit an intercept for the change in the left most digit at X0 and two slopes for the left (with values in the range -3 to 0, corresponding to X6 to X9) and right (with values in the range 0 to 5, corresponding to Y0 to Y5) values. The constant shows the probability to sell the stock at when the second digit is 9 (X9). The second digit over threshold dummy shows the jump in probability when the first digit changes and so the second digit becomes 0 (Y0). SE are clustered by account.

Table 7: Probability of Sale and Left Digit, Splitting by Gender

| | Prices Increasing Sample | | Prices Decreasing Sample | |
|----------------------------------|--------------------------|------------------------|--------------------------|------------------------|
| | Female | Male | Female | Male |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0064*** (0.0004) | 0.0061*** (0.0002) | -0.0037*** (0.0004) | -0.0040*** (0.0002) |
| Stock Digits Y0 to Y5 | -0.0006*** (0.0001) | -0.0008*** (0.0000) | 0.0005*** (0.0001) | 0.0004*** (0.0000) |
| Stock Digits X6 to X9 | -0.0004*** (0.0002) | -0.0001** (0.0001) | 0.0005*** (0.0002) | 0.0006*** (0.0001) |
| Day FE | YES | YES | YES | YES |
| Industry FE | YES | YES | YES | YES |
| Account FE | YES | YES | YES | YES |
| Stock FE | YES | YES | YES | YES |
| Observations | 837,223 | 4,032,491 | 787,316 | 4,116,562 |
| R ² | 0.0700 | 0.0746 | 0.0703 | 0.0731 |

Note: The unit of observation is an investor \times stock \times day. The samples is restricted to login days. We include only quarters in which the stocks increased/decreased in price (regarding the first observation of the quarter) and change the left most digit at least once during the quarter. Only those stocks that have changed the left most digit are included. Regressions fit an intercept for the change in the left most digit at X0 and two slopes for the left (with values in the range -3 to 0, corresponding to X6 to X9) and right (with values in the range 0 to 5, corresponding to Y0 to Y5) values. The constant shows the probability to sell the stock at when the second digit is 9 (X9). The second digit over threshold dummy shows the jump in probability when the first digit changes and so the second digit becomes 0 (Y0). SE are clustered by account.

Table 8: Probability of Sale and Left Digit, Splitting by Portfolio Value

| | Prices Increasing Sample | | Prices Decreasing Sample | |
|----------------------------------|--------------------------|------------------------|--------------------------|------------------------|
| | Below Median | Above Median | Below Median | Above Median |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0090*** (0.0003) | 0.0035*** (0.0002) | -0.0049*** (0.0003) | -0.0030*** (0.0002) |
| Stock Digits Y0 to Y5 | -0.0011*** (0.0001) | -0.0004*** (0.0001) | 0.0005*** (0.0001) | 0.0003*** (0.0000) |
| Stock Digits X6 to X9 | -0.0003*** (0.0001) | -0.0001 (0.0001) | 0.0008*** (0.0001) | 0.0002** (0.0001) |
| Day FE | YES | YES | YES | YES |
| Industry FE | YES | YES | YES | YES |
| Account FE | YES | YES | YES | YES |
| Stock FE | YES | YES | YES | YES |
| Observations | 2,390,422 | 2,479,292 | 2,496,374 | 2,407,504 |
| R ² | 0.1030 | 0.0503 | 0.1063 | 0.0437 |

Note: The unit of observation is an investor \times stock \times day. The samples is restricted to login days. We include only quarters in which the stocks increased/decreased in price (regarding the first observation of the quarter) and change the left most digit at least once during the quarter. Only those stocks that have changed the left most digit are included. Regressions fit an intercept for the change in the left most digit at X0 and two slopes for the left (with values in the range -3 to 0, corresponding to X6 to X9) and right (with values in the range 0 to 5, corresponding to Y0 to Y5) values. The constant shows the probability to sell the stock at when the second digit is 9 (X9). The second digit over threshold dummy shows the jump in probability when the first digit changes and so the second digit becomes 0 (Y0). SE are clustered by account.

Table 9: Probability of Sale and Left Digit, Splitting by Account Tenure

| | Prices Increasing Sample | | Prices Decreasing Sample | |
|----------------------------------|--------------------------|------------------------|--------------------------|------------------------|
| | Below Median | Above Median | Below Median | Above Median |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0072*** (0.0003) | 0.0052*** (0.0002) | -0.0046*** (0.0003) | -0.0033*** (0.0003) |
| Stock Digits Y0 to Y5 | -0.0009*** (0.0001) | -0.0006*** (0.0001) | 0.0005*** (0.0001) | 0.0003*** (0.0000) |
| Stock Digits X6 to X9 | -0.0002* (0.0001) | -0.0002** (0.0001) | 0.0006*** (0.0001) | 0.0005*** (0.0001) |
| Day FE | YES | YES | YES | YES |
| Industry FE | YES | YES | YES | YES |
| Account FE | YES | YES | YES | YES |
| Stock FE | YES | YES | YES | YES |
| Observations | 2,394,197 | 2,475,517 | 2,495,063 | 2,408,815 |
| R ² | 0.0831 | 0.0607 | 0.0792 | 0.0645 |

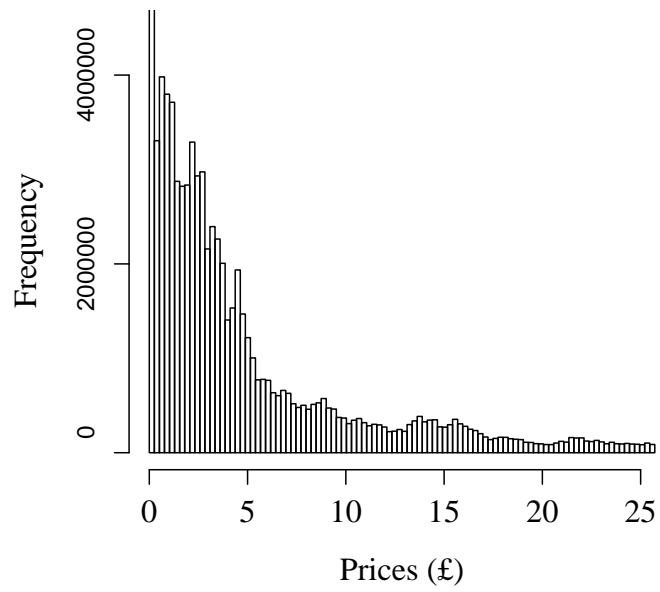
Note: The unit of observation is an investor \times stock \times day. The samples is restricted to login days. We include only quarters in which the stocks increased/decreased in price (regarding the first observation of the quarter) and change the left most digit at least once during the quarter. Only those stocks that have changed the left most digit are included. Regressions fit an intercept for the change in the left most digit at X0 and two slopes for the left (with values in the range -3 to 0, corresponding to X6 to X9) and right (with values in the range 0 to 5, corresponding to Y0 to Y5) values. The constant shows the probability to sell the stock at when the second digit is 9 (X9). The second digit over threshold dummy shows the jump in probability when the first digit changes and so the second digit becomes 0 (Y0). SE are clustered by account.

Table 10: Probability of Sale and Left Digit, Splitting by Number of Stocks

| | Prices Increasing Sample | | Prices Decreasing Sample | |
|----------------------------------|--------------------------|------------------------|--------------------------|------------------------|
| | Below Median | Above Median | Below Median | Above Median |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0088*** (0.0003) | 0.0031*** (0.0002) | -0.0049*** (0.0003) | -0.0030*** (0.0002) |
| Stock Digits Y0 to Y5 | -0.0011*** (0.0001) | -0.0004*** (0.0001) | 0.0005*** (0.0001) | 0.0004*** (0.0000) |
| Stock Digits X6 to X9 | -0.0003*** (0.0001) | -0.0001 (0.0001) | 0.0009*** (0.0001) | 0.0002** (0.0001) |
| Day FE | YES | YES | YES | YES |
| Industry FE | YES | YES | YES | YES |
| Account FE | YES | YES | YES | YES |
| Stock FE | YES | YES | YES | YES |
| Observations | 2,650,726 | 2,218,988 | 2,492,742 | 2,411,136 |
| R ² | 0.0908 | 0.0377 | 0.0934 | 0.0329 |

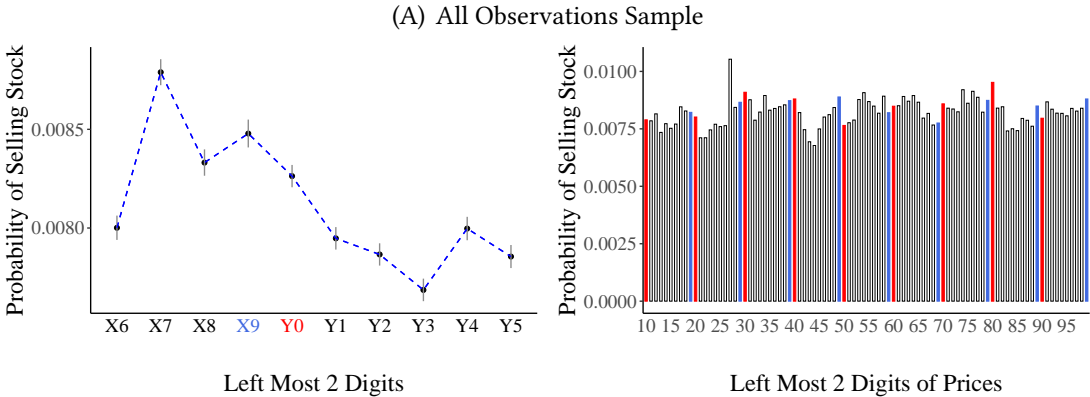
Note: The unit of observation is an investor \times stock \times day. The samples is restricted to login days. We include only quarters in which the stocks increased/decreased in price (regarding the first observation of the quarter) and change the left most digit at least once during the quarter. Only those stocks that have changed the left most digit are included. Regressions fit an intercept for the change in the left most digit at X0 and two slopes for the left (with values in the range -3 to 0, corresponding to X6 to X9) and right (with values in the range 0 to 5, corresponding to Y0 to Y5) values. The constant shows the probability to sell the stock at when the second digit is 9 (X9). The second digit over threshold dummy shows the jump in probability when the first digit changes and so the second digit becomes 0 (Y0). SE are clustered by account.

Figure A1: Histogram of Stock Prices



Note: Figure shows the histogram of prices on login days. Outliers above the 95 percentile are excluded.

Figure A2: Leftmost Stock Price Digit and Probability of Sale, Quarterly Sample



Note: £Y in the X-axes is equivalent to £X + 1 (e.g., £X9 could include £0.19, £1.9, £19, etc., while £Y0 could include £0.20, £2.0, £20, etc.).

Figure A3: Sample Selection and Simulation Exercise

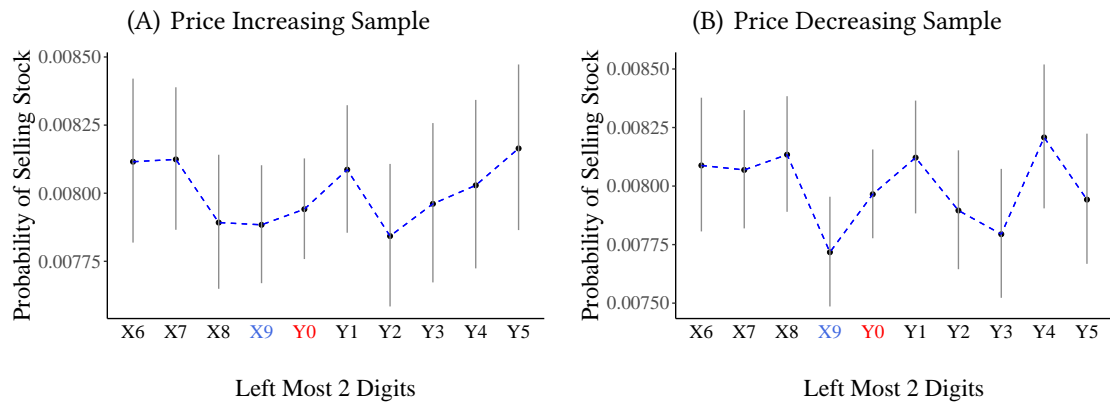
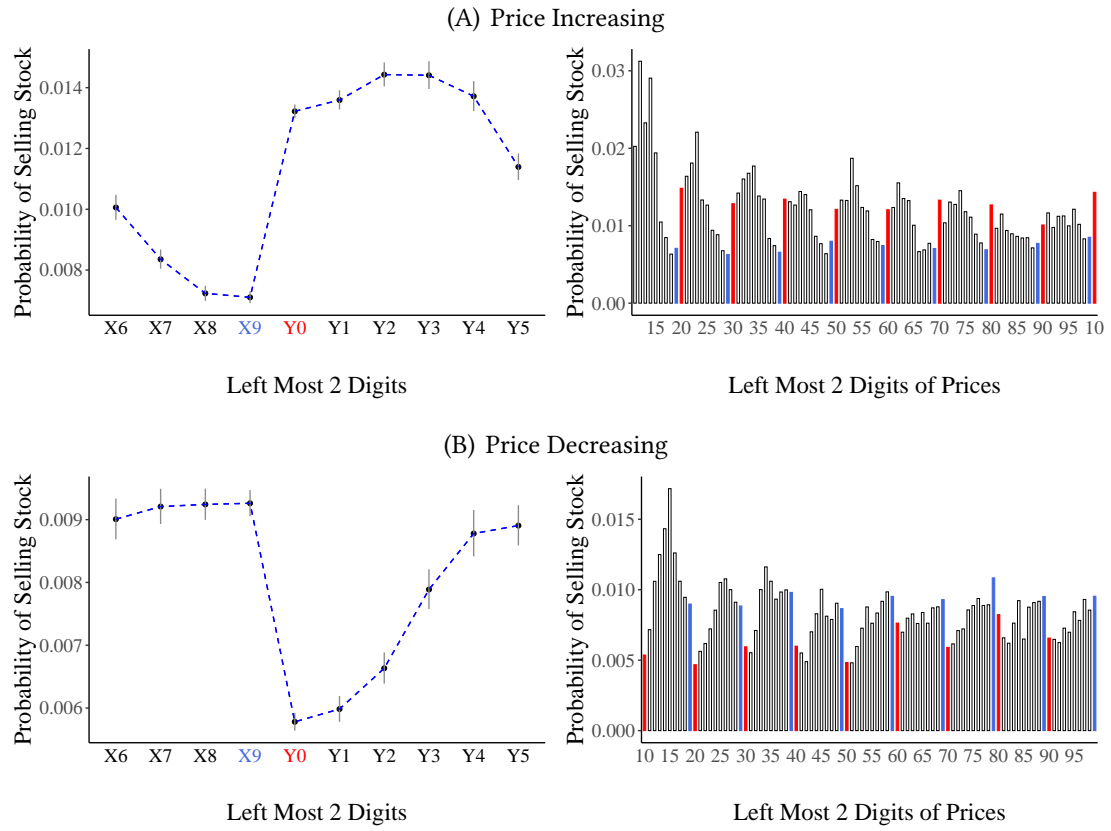
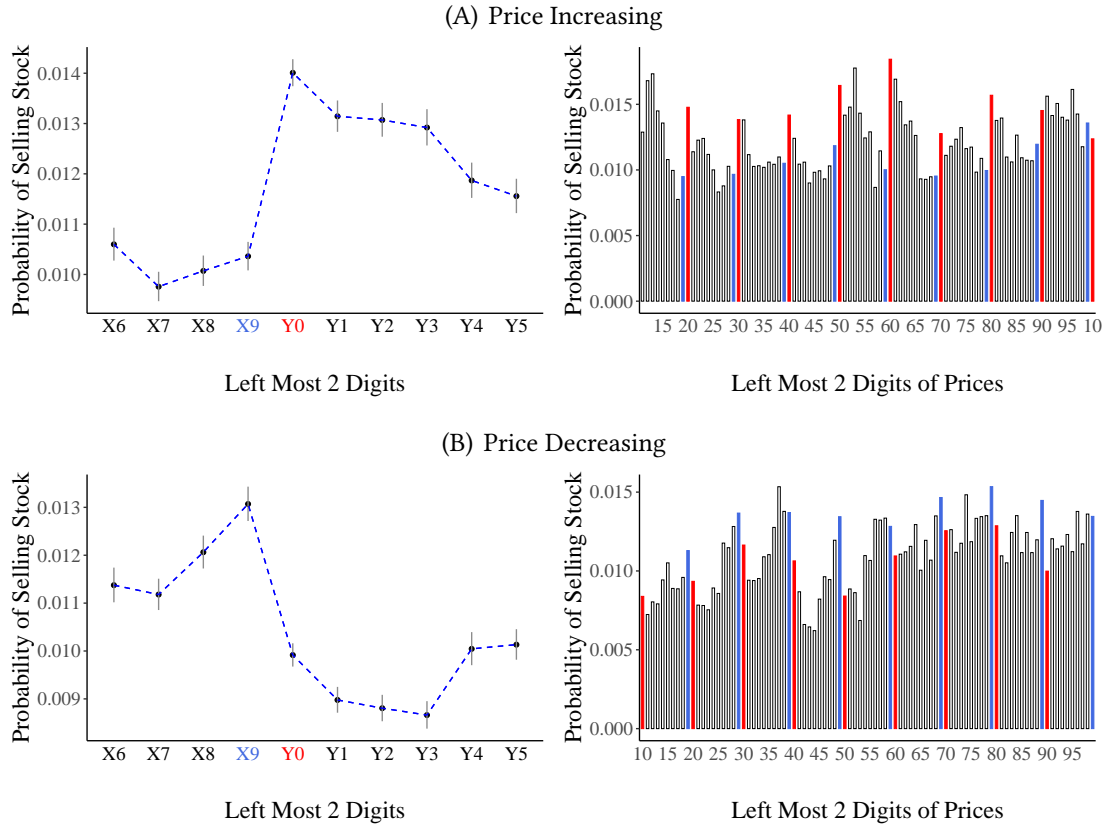


Figure A4: Leftmost Stock Price Digit and Probability of Sale, Monthly Sample



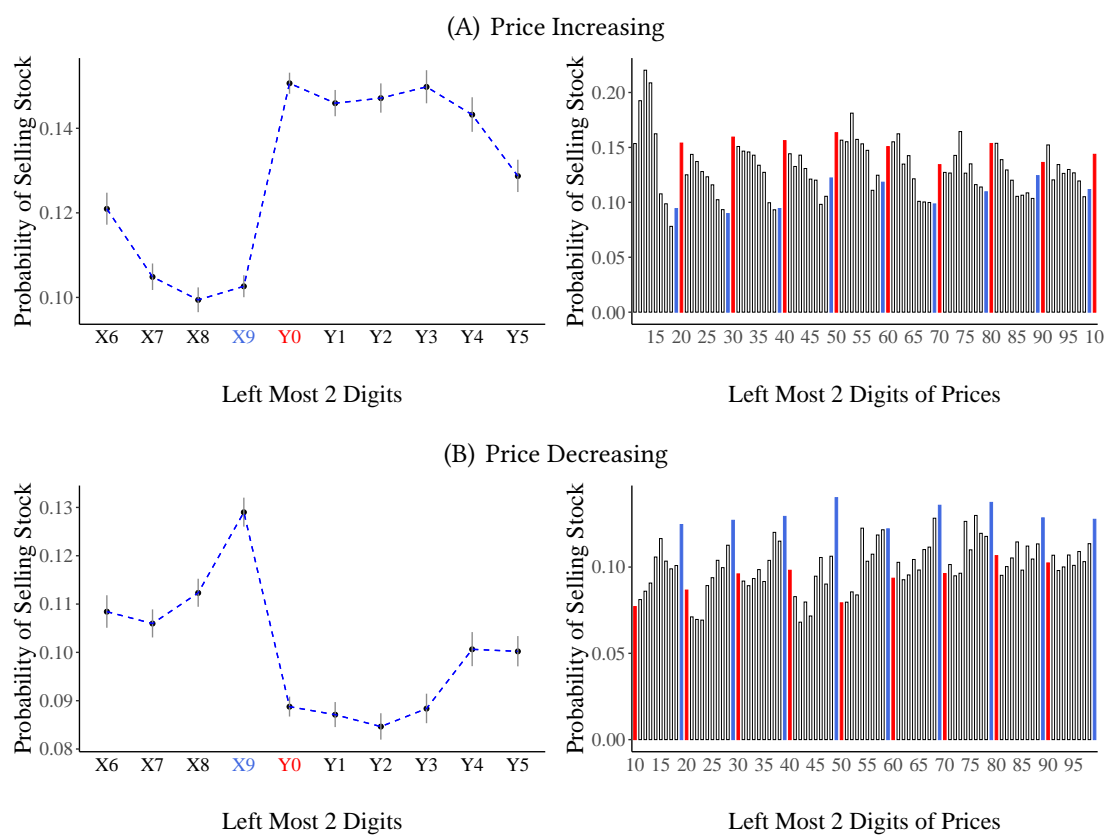
Note: £Y in the X-axes is equivalent to £X + 1 (e.g., £X9 could include £0.19, £1.9, £19, etc., while £Y0 could include £0.20, £2.0, £20, etc.).

Figure A5: Leftmost Stock Price Digit and Probability of Sale, Annual Sample



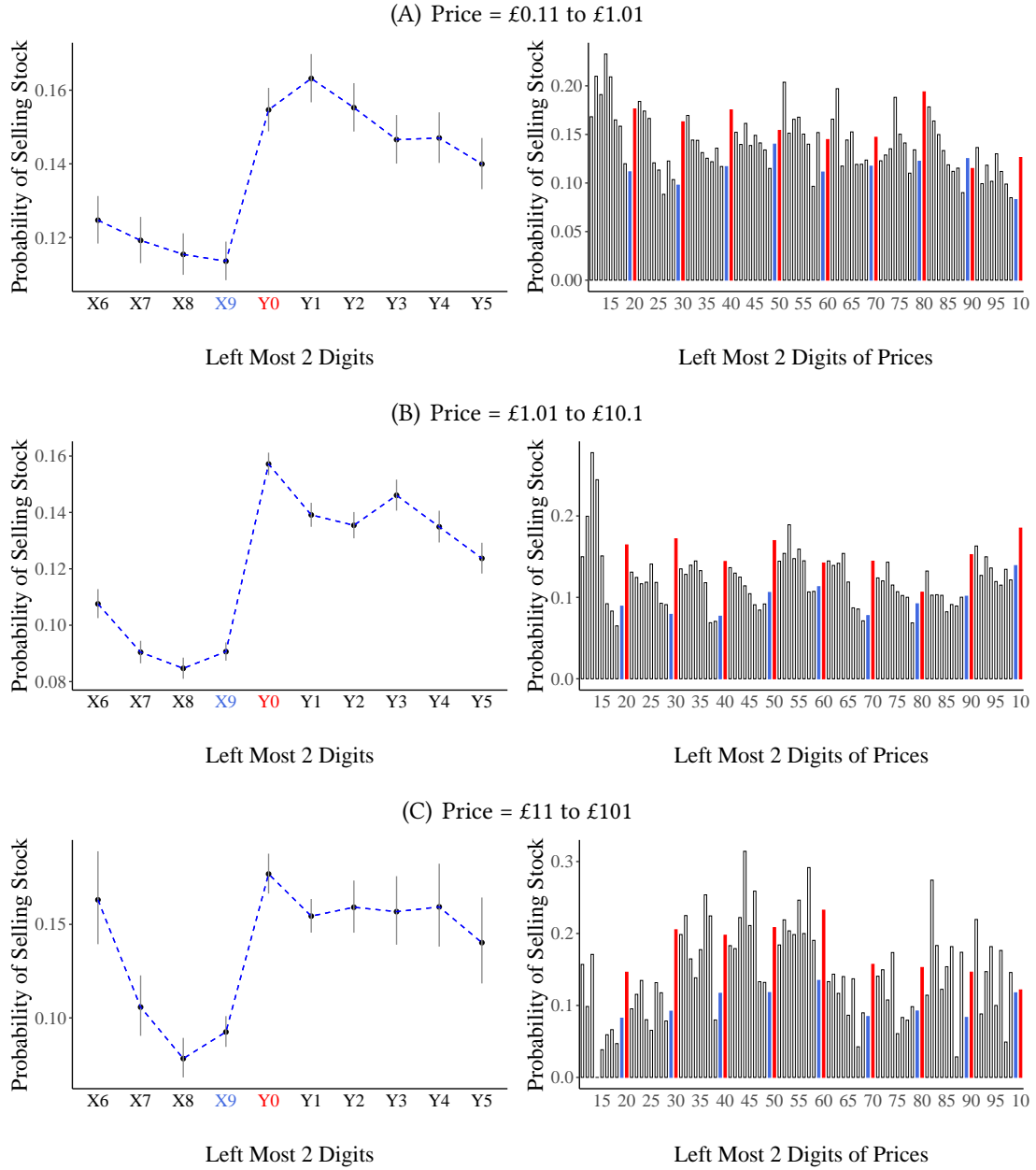
Note: $\pounds Y$ in the X-axes is equivalent to $\pounds X + 1$ (e.g., $\pounds X9$ could include $\pounds 0.19$, $\pounds 1.9$, $\pounds 19$, etc., while $\pounds Y0$ could include $\pounds 0.20$, $\pounds 2.0$, $\pounds 20$, etc.).

Figure A6: Leftmost Stock Price Digit and Probability of Sale, Sell Days



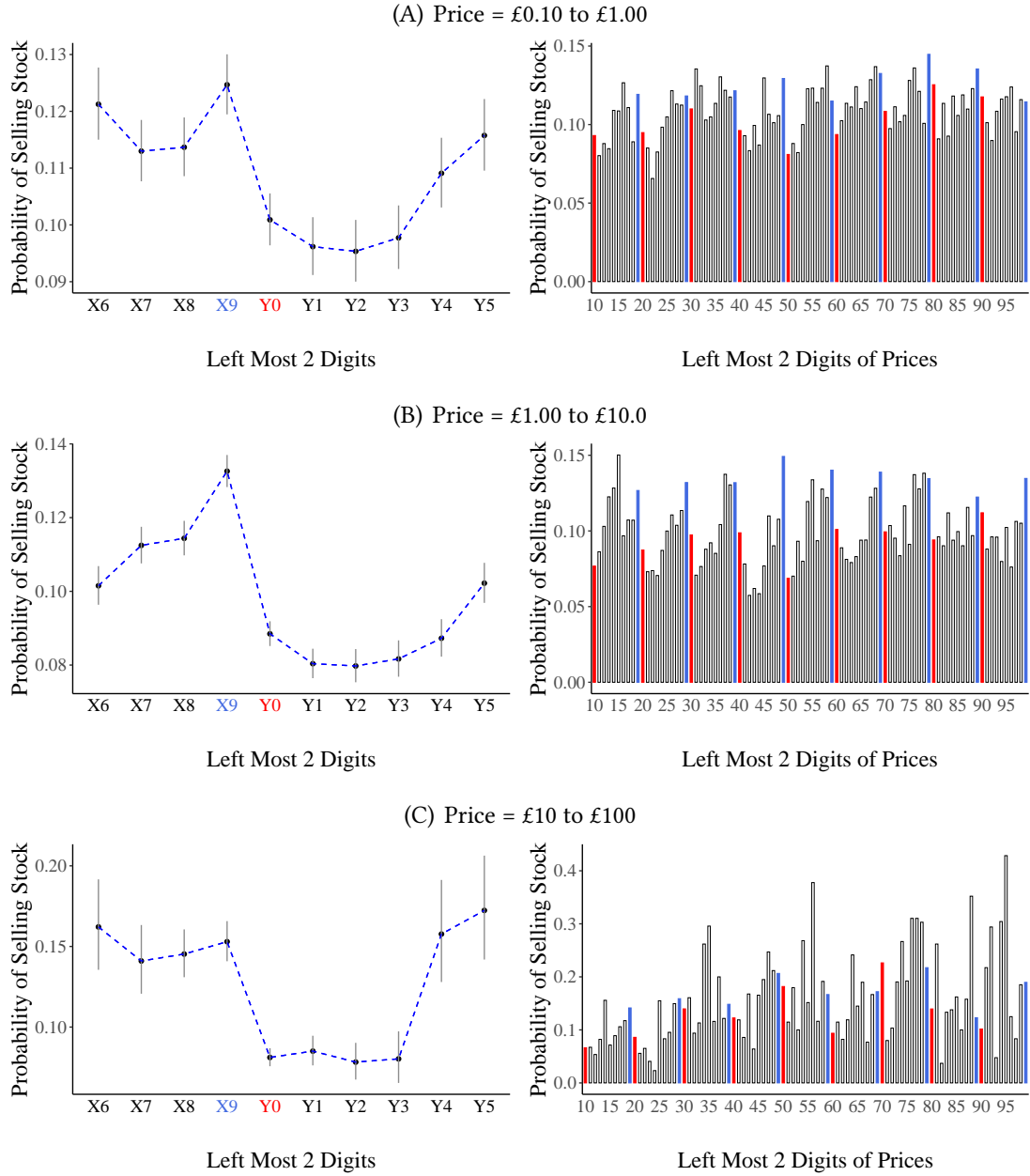
Note: $\pounds Y$ in the X-axes is equivalent to $\pounds X + 1$ (e.g., $\pounds X9$ could include $\pounds 0.19$, $\pounds 1.9$, $\pounds 19$, etc., while $\pounds Y0$ could include $\pounds 0.20$, $\pounds 2.0$, $\pounds 20$, etc.).

Figure A7: Leftmost Stock Price Digit and Probability of Sale, Sell Days
Prices Increasing Sample by Price Range



Note: £Y in the X-axes is equivalent to £X + 1 (e.g., £X9 could include £0.19, £1.9, £19, etc., while £Y0 could include £0.20, £2.0, £20, etc.). Panels A, B and C show equal size bins of 1p, 10p and £1, respectively.

Figure A8: Leftmost Stock Price Digit and Probability of Sale, Sell Days
Prices Decreasing Sample by Price Range



Note: £Y in the X-axes is equivalent to £X + 1 (e.g., £X9 could include £0.19, £1.9, £19, etc., while £Y0 could include £0.20, £2.0, £20, etc.). Panels A, B and C show equal size bins of 1p, 10p and £1, respectively.

Table A1: Price Increasing Subsamples with Equal Prices Bins

| Panel (A): Price = £0.11 to £1.01 | | | | | |
|--------------------------------------------|---------------------------------|------------------------|------------------------|------------------------|------------------------|
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | 0.0037*** (0.0002) | 0.0049*** (0.0003) | 0.0046*** (0.0003) | 0.0048*** (0.0004) | 0.0047*** (0.0004) |
| Stock Digits Y_0 to Y_5 | | -0.0003*** (0.0001) | -0.0003*** (0.0001) | -0.0004*** (0.0001) | -0.0006*** (0.0001) |
| Stock Digits X_6 to X_9 | | -0.0004*** (0.0001) | -0.0002 (0.0001) | -0.0003** (0.0001) | -0.0003** (0.0001) |
| Constant | 0.0111*** (0.0003) | 0.0106*** (0.0003) | 0.0221*** (0.0031) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 1,221,843 | 1,221,843 | 1,221,843 | 1,221,843 | 1,221,843 |
| R^2 | 0.0003 | 0.0003 | 0.0013 | 0.1013 | 0.1080 |
| Panel (B): Price = £1.01 to £10.1 | | | | | |
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | 0.0050*** (0.0001) | 0.0065*** (0.0002) | 0.0063*** (0.0002) | 0.0064*** (0.0002) | 0.0067*** (0.0002) |
| Stock Digits Y_0 to Y_5 | | -0.0006*** (0.0001) | -0.0007*** (0.0001) | -0.0006*** (0.0001) | -0.0008*** (0.0001) |
| Stock Digits X_6 to X_9 | | -0.0002*** (0.0001) | -0.0001** (0.0001) | -0.0002*** (0.0001) | -0.0001 (0.0001) |
| Constant | 0.0067*** (0.0001) | 0.0065*** (0.0002) | 0.0134*** (0.0026) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 2,670,842 | 2,670,842 | 2,670,842 | 2,670,842 | 2,670,842 |
| R^2 | 0.0007 | 0.0007 | 0.0020 | 0.0738 | 0.0764 |
| Panel (C): Price = £11 to £101 | | | | | |
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | 0.0052*** (0.0004) | 0.0068*** (0.0005) | 0.0069*** (0.0005) | 0.0085*** (0.0006) | 0.0091*** (0.0006) |
| Stock Digits Y_0 to Y_5 | | -0.0003 (0.0002) | -0.0004* (0.0002) | 0.0001 (0.0002) | -0.0000 (0.0002) |
| Stock Digits X_6 to X_9 | | -0.0015*** (0.0003) | -0.0018*** (0.0003) | -0.0015*** (0.0003) | -0.0015*** (0.0003) |
| Constant | 0.0073*** (0.0003) | 0.0061*** (0.0003) | -0.0024*** (0.0007) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 358,540 | 358,540 | 358,540 | 358,540 | 358,540 |
| R^2 | 0.0006 | 0.0007 | 0.0030 | 0.1395 | 0.1444 |

Table A2: Price Decreasing Subsamples with Equal Prices Bins

| Panel (A): Price = £0.10 to £1.00 | | | | | |
|--------------------------------------------|---------------------------------|------------------------|------------------------|------------------------|------------------------|
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | 0.0037*** (0.0002) | 0.0049*** (0.0003) | 0.0046*** (0.0003) | 0.0048*** (0.0004) | 0.0047*** (0.0004) |
| Stock Digits Y_0 to Y_5 | | -0.0003*** (0.0001) | -0.0003*** (0.0001) | -0.0004*** (0.0001) | -0.0006*** (0.0001) |
| Stock Digits X_6 to X_9 | | -0.0004*** (0.0001) | -0.0002 (0.0001) | -0.0003** (0.0001) | -0.0003** (0.0001) |
| Constant | 0.0111*** (0.0003) | 0.0106*** (0.0003) | 0.0221*** (0.0031) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 1,221,843 | 1,221,843 | 1,221,843 | 1,221,843 | 1,221,843 |
| R^2 | 0.0003 | 0.0003 | 0.0013 | 0.1013 | 0.1080 |
| Panel (B): Price = £1.00 to £10.0 | | | | | |
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | -0.0027*** (0.0002) | -0.0042*** (0.0002) | -0.0045*** (0.0002) | -0.0045*** (0.0002) | -0.0042*** (0.0002) |
| Stock Digits Y_0 to Y_5 | | 0.0001 (0.0000) | 0.0001* (0.0000) | 0.0004*** (0.0001) | 0.0004*** (0.0001) |
| Stock Digits X_6 to X_9 | | 0.0011*** (0.0001) | 0.0011*** (0.0001) | 0.0007*** (0.0001) | 0.0007*** (0.0001) |
| Constant | 0.0093*** (0.0002) | 0.0107*** (0.0002) | 0.0207*** (0.0080) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 2,144,544 | 2,144,544 | 2,144,544 | 2,144,544 | 2,144,544 |
| R^2 | 0.0002 | 0.0003 | 0.0008 | 0.0797 | 0.0838 |
| Panel (C): Price = £10 to £100 | | | | | |
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | -0.0069*** (0.0005) | -0.0077*** (0.0006) | -0.0069*** (0.0006) | -0.0058*** (0.0007) | -0.0046*** (0.0008) |
| Stock Digits Y_0 to Y_5 | | 0.0006*** (0.0002) | 0.0007*** (0.0002) | 0.0006*** (0.0002) | 0.0003 (0.0002) |
| Stock Digits X_6 to X_9 | | 0.0003 (0.0004) | 0.0007* (0.0004) | 0.0001 (0.0004) | 0.0003 (0.0004) |
| Constant | 0.0128*** (0.0006) | 0.0132*** (0.0006) | 0.0080*** (0.0017) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 340,298 | 340,298 | 340,298 | 340,298 | 340,298 |
| R^2 | 0.0012 | 0.0012 | 0.0031 | 0.1497 | 0.1554 |

Table A3: Price Increasing Sample
Limit Order Robustness Tests

| Panel (A): Excluding Pre-Market and After-Hours Sells (Outside 8am to 4:30pm) | | | | | |
|-------------------------------------------------------------------------------|---------------------------------|------------------------|------------------------|------------------------|------------------------|
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | 0.0043*** (0.0001) | 0.0054*** (0.0002) | 0.0049*** (0.0002) | 0.0053*** (0.0002) | 0.0059*** (0.0002) |
| Stock Digits Y_0 to Y_5 | | -0.0003*** (0.0000) | -0.0004*** (0.0000) | -0.0005*** (0.0000) | -0.0007*** (0.0000) |
| Stock Digits X_6 to X_9 | | -0.0005*** (0.0001) | -0.0003*** (0.0001) | -0.0002*** (0.0001) | -0.0002*** (0.0001) |
| Constant | 0.0084*** (0.0001) | 0.0078*** (0.0001) | 0.0075*** (0.0008) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 4,868,538 | 4,868,538 | 4,868,538 | 4,868,538 | 4,868,538 |
| R^2 | 0.0004 | 0.0004 | 0.0018 | 0.0688 | 0.0736 |

| Panel (B): Excluding Sells with Login the Day Before or Weekend Logins for Monday Sells | | | | | |
|-----------------------------------------------------------------------------------------|---------------------------------|------------------------|------------------------|------------------------|------------------------|
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | 0.0016*** (0.0001) | 0.0021*** (0.0001) | 0.0020*** (0.0001) | 0.0023*** (0.0001) | 0.0025*** (0.0001) |
| Stock Digits Y_0 to Y_5 | | -0.0001*** (0.0000) | -0.0001*** (0.0000) | -0.0002*** (0.0000) | -0.0003*** (0.0000) |
| Stock Digits X_6 to X_9 | | -0.0002*** (0.0000) | -0.0002*** (0.0000) | -0.0002*** (0.0000) | -0.0002*** (0.0000) |
| Constant | 0.0031*** (0.0001) | 0.0028*** (0.0001) | 0.0012*** (0.0003) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 4,834,411 | 4,834,411 | 4,834,411 | 4,834,411 | 4,834,411 |
| R^2 | 0.0002 | 0.0002 | 0.0010 | 0.0616 | 0.0643 |

Note: Panels A, B and C show equal size bins of 1p, 10p and £1, respectively. Panel A drops 0.018% of sells, Panel B drops 61% of sells, Panel C drops 76% of sells, and Panel D drops 11% of sells.

Table A4: Price Increasing Sample
Limit Order Robustness Tests

Panel (C): Including Only FTSE100 Stocks

| | <i>Probability of Sale_{ijt} = 1</i> | | | | |
|----------------------------------|----------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0070*** (0.0002) | 0.0090*** (0.0003) | 0.0087*** (0.0003) | 0.0096*** (0.0004) | 0.0098*** (0.0004) |
| Stock Digits Y0 to Y5 | | -0.0010*** (0.0001) | -0.0009*** (0.0001) | -0.0009*** (0.0001) | -0.0009*** (0.0001) |
| Stock Digits X6 to X9 | | -0.0001 (0.0001) | -0.0001 (0.0001) | -0.0005*** (0.0001) | -0.0005*** (0.0001) |
| Constant | 0.0079*** (0.0002) | 0.0077*** (0.0002) | 0.0259*** (0.0013) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 1,126,143 | 1,126,143 | 1,126,143 | 1,126,143 | 1,126,143 |
| R ² | 0.0010 | 0.0012 | 0.0025 | 0.1024 | 0.1031 |

Panel (D): Excluding Accounts with Potential Limit Orders (Linnainmaa, 2010)

| | <i>Probability of Sale_{ijt} = 1</i> | | | | |
|----------------------------------|----------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0042*** (0.0001) | 0.0052*** (0.0002) | 0.0048*** (0.0002) | 0.0053*** (0.0002) | 0.0059*** (0.0002) |
| Stock Digits Y0 to Y5 | | -0.0003*** (0.0000) | -0.0004*** (0.0000) | -0.0005*** (0.0000) | -0.0007*** (0.0000) |
| Stock Digits X6 to X9 | | -0.0004*** (0.0001) | -0.0003*** (0.0001) | -0.0003*** (0.0001) | -0.0002*** (0.0001) |
| Constant | 0.0082*** (0.0001) | 0.0076*** (0.0001) | 0.0069*** (0.0008) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 4,553,582 | 4,553,582 | 4,553,582 | 4,553,582 | 4,553,582 |
| R ² | 0.0004 | 0.0004 | 0.0016 | 0.0700 | 0.0745 |

Note: Panels A, B and C show equal size bins of 1p, 10p and £1, respectively. Panel A drops 0.018% of sells, Panel B drops 61% of sells, Panel C drops 76% of sells, and Panel D drops 11% of sells.

Table A5: Summary Stats for Annual and Monthly Samples

| | N | Mean | St. Dev. | Min | Pctl(25) | Median | Pctl(75) | Max |
|---------------------------|-----------|-------|----------|-------|----------|--------|----------|-----------|
| Monthly Increasing Sample | 4,320,119 | 5.377 | 25.084 | 0.000 | 0.565 | 2.628 | 6.008 | 3,589.000 |
| Monthly Decreasing Sample | 5,124,666 | 4.625 | 24.242 | 0.000 | 0.211 | 1.002 | 5.038 | 2,062.035 |
| Annual Increasing Sample | 4,561,585 | 7.739 | 22.449 | 0.000 | 1.070 | 3.584 | 7.204 | 3,589.500 |
| Annual Decreasing Sample | 4,184,114 | 3.932 | 20.374 | 0.000 | 0.160 | 1.090 | 4.240 | 2,062.035 |

Table A6: Price Increasing Samples, Monthly and Annual Samples

| Panel (A): Monthly Sample | | | | | |
|----------------------------------|----------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| | <i>Probability of Sale_{ijt} = 1</i> | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0057*** (0.0001) | 0.0067*** (0.0002) | 0.0062*** (0.0002) | 0.0065*** (0.0002) | 0.0070*** (0.0002) |
| Stock Digits Y0 to Y5 | | -0.0001* (0.0000) | -0.0002*** (0.0000) | -0.0005*** (0.0000) | -0.0007*** (0.0000) |
| Stock Digits X6 to X9 | | -0.0009*** (0.0001) | -0.0005*** (0.0001) | -0.0001 (0.0001) | -0.0001 (0.0001) |
| Constant | 0.0078*** (0.0001) | 0.0069*** (0.0001) | 0.0102*** (0.0012) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 4,320,119 | 4,320,119 | 4,320,119 | 4,320,119 | 4,320,119 |
| R ² | 0.0007 | 0.0007 | 0.0018 | 0.0632 | 0.0681 |

| Panel (B): Annual Sample | | | | | |
|----------------------------------|----------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| | <i>Probability of Sale_{ijt} = 1</i> | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0028*** (0.0001) | 0.0038*** (0.0002) | 0.0035*** (0.0002) | 0.0042*** (0.0002) | 0.0048*** (0.0002) |
| Stock Digits Y0 to Y5 | | -0.0005*** (0.0000) | -0.0005*** (0.0000) | -0.0005*** (0.0000) | -0.0007*** (0.0000) |
| Stock Digits X6 to X9 | | -0.0000 (0.0001) | 0.0000 (0.0001) | -0.0002** (0.0001) | -0.0001 (0.0001) |
| Constant | 0.0102*** (0.0002) | 0.0102*** (0.0002) | 0.0089*** (0.0009) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 4,561,585 | 4,561,585 | 4,561,585 | 4,561,585 | 4,561,585 |
| R ² | 0.0002 | 0.0002 | 0.0025 | 0.0763 | 0.0812 |

Table A7: Price Decreasing Samples, Monthly and Annual Samples

| Panel (A): Monthly Sample | | | | | |
|----------------------------------|----------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| | <i>Probability of Sale_{ijt} = 1</i> | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | -0.0024*** (0.0001) | -0.0037*** (0.0001) | -0.0040*** (0.0001) | -0.0040*** (0.0001) | -0.0042*** (0.0002) |
| Stock Digits Y0 to Y5 | | 0.0007*** (0.0000) | 0.0007*** (0.0000) | 0.0006*** (0.0000) | 0.0006*** (0.0000) |
| Stock Digits X6 to X9 | | 0.0001 (0.0001) | 0.0002*** (0.0001) | 0.0002*** (0.0001) | 0.0003*** (0.0001) |
| Constant | 0.0092*** (0.0002) | 0.0093*** (0.0002) | 0.0148*** (0.0010) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 5,124,666 | 5,124,666 | 5,124,666 | 5,124,666 | 5,124,666 |
| R ² | 0.0002 | 0.0003 | 0.0006 | 0.0590 | 0.0623 |
| Panel (B): Annual Sample | | | | | |
| | <i>Probability of Sale_{ijt} = 1</i> | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | -0.0025*** (0.0001) | -0.0035*** (0.0002) | -0.0039*** (0.0002) | -0.0032*** (0.0002) | -0.0030*** (0.0002) |
| Stock Digits Y0 to Y5 | | 0.0001 (0.0000) | 0.0000 (0.0000) | 0.0003*** (0.0000) | 0.0003*** (0.0000) |
| Stock Digits X6 to X9 | | 0.0006*** (0.0001) | 0.0008*** (0.0001) | 0.0004*** (0.0001) | 0.0004*** (0.0001) |
| Constant | 0.0119*** (0.0002) | 0.0128*** (0.0003) | 0.0168*** (0.0012) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 4,184,114 | 4,184,114 | 4,184,114 | 4,184,114 | 4,184,114 |
| R ² | 0.0001 | 0.0002 | 0.0006 | 0.0796 | 0.0845 |

Table A8: Probability of Sale and Left Digit, Price Increasing Sample, Sell Days

| | <i>Probability of Sale_{ijt} = 1</i> | | | | |
|----------------------------------|----------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0401*** (0.0019) | 0.0523*** (0.0025) | 0.0495*** (0.0025) | 0.0424*** (0.0024) | 0.0463*** (0.0024) |
| Stock Digits Y0 to Y5 | | -0.0030*** (0.0005) | -0.0036*** (0.0005) | -0.0036*** (0.0005) | -0.0057*** (0.0005) |
| Stock Digits X6 to X9 | | -0.0052*** (0.0008) | -0.0038*** (0.0008) | -0.0022*** (0.0007) | -0.0015* (0.0008) |
| Constant | 0.1057*** (0.0032) | 0.0991*** (0.0032) | 0.0958*** (0.0092) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 418,946 | 418,946 | 418,946 | 418,946 | 418,946 |
| R ² | 0.0033 | 0.0036 | 0.0112 | 0.2464 | 0.2715 |

Note: The unit of observation is an investor \times stock \times day. The samples is restricted to sell days. We include only quarters in which the stocks increased in price (regarding the first observation of the quarter) and change the left most digit at least once during the quarter. Only those stocks that have changed the left most digit are included. Regressions fit an intercept for the change in the left most digit at X0 and two slopes for the left (with values in the range -3 to 0, corresponding to X6 to X9) and right (with values in the range 0 to 5, corresponding to Y0 to Y5) values. The constant shows the probability to sell the stock at when the second digit is 9 (X9). The second digit over threshold dummy shows the jump in probability when the first digit changes and so the second digit becomes 0 (X0). SE are clustered by account.

Table A9: Probability of Sale and Left Digit, Price Decreasing Sample, Sell Days

| | <i>Probability of Sale_{ijt} = 1</i> | | | | |
|----------------------------------|----------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | -0.0240*** (0.0013) | -0.0388*** (0.0021) | -0.0414*** (0.0020) | -0.0316*** (0.0019) | -0.0313*** (0.0019) |
| Stock Digits Y0 to Y5 | | 0.0024*** (0.0004) | 0.0025*** (0.0004) | 0.0031*** (0.0004) | 0.0037*** (0.0004) |
| Stock Digits X6 to X9 | | 0.0073*** (0.0009) | 0.0078*** (0.0009) | 0.0043*** (0.0008) | 0.0035*** (0.0008) |
| Constant | 0.1147*** (0.0026) | 0.1246*** (0.0031) | 0.1554*** (0.0091) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 427,965 | 427,965 | 427,965 | 427,965 | 427,965 |
| R ² | 0.0015 | 0.0019 | 0.0035 | 0.2225 | 0.2450 |

Note: The unit of observation is an investor \times stock \times day. The samples is restricted to sell days. We include only quarters in which the stocks have not increased in price (regarding the first observation of the quarter) and have not changed the left most digit at least once during the quarter. Regressions fit an intercept for the change in the left most digit at X0 and two slopes for the left (with values in the range -3 to 0, corresponding to X6 to X9) and right (with values in the range 0 to 5, corresponding to Y0 to Y5) values. The constant shows the probability to sell the stock at when the second digit is 9 (X9). The second digit over threshold dummy shows the jump in probability when the first digit changes and so the second digit becomes 0 (X0). SE are clustered by account.

Table A10: Price Increasing Subsamples with Equal Prices Bins, Sell Days

| Panel (A): Price = £0.11 to £1.01 | | | | | |
|--------------------------------------------|---------------------------------|------------------------|------------------------|------------------------|------------------------|
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | 0.0341*** (0.0027) | 0.0471*** (0.0038) | 0.0438*** (0.0038) | 0.0298*** (0.0037) | 0.0273*** (0.0037) |
| Stock Digits Y_0 to Y_5 | | -0.0035*** (0.0009) | -0.0033*** (0.0009) | -0.0029*** (0.0009) | -0.0033*** (0.0009) |
| Stock Digits X_6 to X_9 | | -0.0036*** (0.0014) | -0.0023 (0.0014) | -0.0016 (0.0014) | -0.0013 (0.0015) |
| Constant | 0.1177*** (0.0045) | 0.1128*** (0.0048) | 0.2175*** (0.0242) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 117,610 | 117,610 | 117,610 | 117,610 | 117,610 |
| R^2 | 0.0024 | 0.0026 | 0.0147 | 0.3492 | 0.3740 |
| Panel (B): Price = £1.01 to £10.1 | | | | | |
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | 0.0500*** (0.0026) | 0.0654*** (0.0035) | 0.0637*** (0.0035) | 0.0503*** (0.0033) | 0.0523*** (0.0033) |
| Stock Digits Y_0 to Y_5 | | -0.0051*** (0.0007) | -0.0058*** (0.0007) | -0.0044*** (0.0007) | -0.0062*** (0.0007) |
| Stock Digits X_6 to X_9 | | -0.0044*** (0.0010) | -0.0036*** (0.0010) | -0.0023** (0.0010) | -0.0008 (0.0010) |
| Constant | 0.0919*** (0.0032) | 0.0866*** (0.0031) | 0.1168*** (0.0211) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 209,483 | 209,483 | 209,483 | 209,483 | 209,483 |
| R^2 | 0.0057 | 0.0062 | 0.0141 | 0.3025 | 0.3176 |
| Panel (C): Price = £11 to £101 | | | | | |
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | 0.0642*** (0.0054) | 0.0849*** (0.0068) | 0.0811*** (0.0066) | 0.0582*** (0.0077) | 0.0619*** (0.0079) |
| Stock Digits Y_0 to Y_5 | | -0.0052** (0.0023) | -0.0051** (0.0023) | 0.0023 (0.0024) | 0.0014 (0.0026) |
| Stock Digits X_6 to X_9 | | -0.0158*** (0.0035) | -0.0172*** (0.0035) | -0.0139*** (0.0039) | -0.0117*** (0.0040) |
| Constant | 0.0971*** (0.0041) | 0.0839*** (0.0044) | -0.0061 (0.0133) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 27,460 | 27,460 | 27,460 | 27,460 | 27,460 |
| R^2 | 0.0079 | 0.0090 | 0.0292 | 0.4648 | 0.4820 |

Table A11: Price Decreasing Subsamples with Equal Prices Bins, Sell Days

| Panel (A): Price = £0.10 to £1.00 | | | | | |
|--------------------------------------------|---------------------------------|------------------------|------------------------|------------------------|------------------------|
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | 0.0341*** (0.0027) | 0.0471*** (0.0038) | 0.0438*** (0.0038) | 0.0298*** (0.0037) | 0.0273*** (0.0037) |
| Stock Digits Y_0 to Y_5 | | -0.0035*** (0.0009) | -0.0033*** (0.0009) | -0.0029*** (0.0009) | -0.0033*** (0.0009) |
| Stock Digits X_6 to X_9 | | -0.0036*** (0.0014) | -0.0023 (0.0014) | -0.0016 (0.0014) | -0.0013 (0.0015) |
| Constant | 0.1177*** (0.0045) | 0.1128*** (0.0048) | 0.2175*** (0.0242) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 117,610 | 117,610 | 117,610 | 117,610 | 117,610 |
| R^2 | 0.0024 | 0.0026 | 0.0147 | 0.3492 | 0.3740 |
| Panel (B): Price = £1.00 to £10.0 | | | | | |
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | -0.0313*** (0.0019) | -0.0472*** (0.0029) | -0.0502*** (0.0029) | -0.0388*** (0.0030) | -0.0359*** (0.0030) |
| Stock Digits Y_0 to Y_5 | | 0.0018*** (0.0006) | 0.0019*** (0.0006) | 0.0037*** (0.0006) | 0.0031*** (0.0007) |
| Stock Digits X_6 to X_9 | | 0.0099*** (0.0013) | 0.0100*** (0.0012) | 0.0046*** (0.0012) | 0.0048*** (0.0012) |
| Constant | 0.1177*** (0.0030) | 0.1301*** (0.0038) | 0.2425*** (0.0795) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 166,494 | 166,494 | 166,494 | 166,494 | 166,494 |
| R^2 | 0.0027 | 0.0033 | 0.0059 | 0.2875 | 0.3057 |
| Panel (C): Price = £10 to £100 | | | | | |
| | Probability of $Sale_{ijt} = 1$ | | | | |
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y_0 = 1$ (in Range Y_0 to Y_5) | -0.0629*** (0.0059) | -0.0735*** (0.0070) | -0.0654*** (0.0070) | -0.0427*** (0.0081) | -0.0296*** (0.0098) |
| Stock Digits Y_0 to Y_5 | | 0.0108*** (0.0024) | 0.0099*** (0.0025) | 0.0053** (0.0027) | 0.0017 (0.0030) |
| Stock Digits X_6 to X_9 | | 0.0004 (0.0049) | 0.0030 (0.0049) | -0.0047 (0.0052) | -0.0029 (0.0053) |
| Constant | 0.1497*** (0.0065) | 0.1501*** (0.0068) | 0.0929*** (0.0239) | | |
| Day FE | NO | NO | YES | YES | YES |
| Industry FE | NO | NO | YES | YES | YES |
| Account FE | NO | NO | NO | YES | YES |
| Stock FE | NO | NO | NO | NO | YES |
| Observations | 24,859 | 24,859 | 24,859 | 24,859 | 24,859 |
| R^2 | 0.0087 | 0.0102 | 0.0241 | 0.4411 | 0.4628 |

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