Left-Digit Bias, Investor Attention and Trading Behavior

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Abstract

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We show left-digit bias in stock-selling behavior of individual investors. Left-digit bias is the tendency to focus on the leftmost digit of a number while partially ignoring other digits (Poltrock and Schwartz, 1984). Our contribution is to show that investors are disproportionately attentive to the leftmost digit in their trading choices, the salience of prices matters for investment choices (is this what we think is going on? This is similar to the rank effect finding of Hartzmark (2015), whereby either top-ranked or bottom-ranked stocks by return since purchase are those most likely to be sold. We contribute to the broader literature on left-digit bias, including Lacetera et al. (2012) and Shlain (2018). Our study contributes to our understanding of when and why investors sell stocks.

1 Data and Sample Selection

We use the Barclays data. We first do some basic data cleaning, with details shown in Table 1.

We then choose a sample for analysis. A key element in our analysis is to draw a price increasing sample and a price decreasing sample, because we will show that the probability of sale increases with a change in the left digit both from below and from above.

We define these samples as follows. First, using the example of price increasing, we identify the first day in each calendar quarter on which an investor made a login to their account. 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. We define the price decreasing sample 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. Due to the immense size of the data, we further restrict to a 30% random sample.

The idea behind this sample restriction is that we need to focus on changes in left-digit that the investor actually saw. By restricting to changes in the left digit as seen by investors on login-days, we know that the investor saw the below-price and then subsequently the above-price (or vice versa).

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

Summary statistics are shown in Table 2. 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). 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.

2 Results

Our main result is shown in Figure 1. The figure stack all investor \times stock \times login days by the leftmost two digits. The figure plots in the left-side the probability of sale by leftmost digits, and in the right-side it plots the probability of sale by the leftmost two digits. For example, the left-side plot stacks up stocks which pass from 9 pence to 10 pence, 29 pence to 30 pence, 199 pence to 200 pence, and so on in every case in which the leftmost digit changes. These examples each enter the plot at X9 to Y0, where X and Y are integer units and Y = X + 1. The left-side plots show clear jumps in the probability of sale when the stock price crosses the leftmost digit; the right-side plots also show this phenomena, with the red bar denoting base 10 leftmost two digit prices. In Panel A there is a jump in probability of sale when the price crosses the left digit from below, e.g. 19 pence to 20 pence; in Panel B there is a jump when the price crosses the left digit from above, e.g. 20 pence to 19 pence. Note that in general the probability of sale is higher in the price increasing sample than in the price decreasing sample, consistent with the disposition effect. Figure 2 and Figure 3 show that the left-digit effect occurs in each of the pennies, pounds and tens of pounds samples.

We estimate the size of the left-digit effect in Table 3 and Table 4. The regression setup is a discontinuity regression which pools all of the observations from the sample (increasing or decreasing) and regresses the probability of sale against a dummy for the price being above the left-digit change, plus continuous controls for the leftmost two digits below and above the left-digit change. The coefficient in Column 2 implies that a stock that has crossed the left-digit from below is 50% more likely to be sold. The coefficient value is stable across specifications, including a rich specification in Column 5 that includes day, industry, account, and stock fixed effects. That specification therefore exploits within-investor, within-stock variation in the probability of sale, conditioning on day and industry differences EQ:[I will drop industry here, because it is accounted by the stocks] in the likelihood of sale. In the price-decreasing sample the coefficient estimate in Column 1 implies a 25% increase in probability of sale when the left-digit changes from above (note the coefficient are negative, reporting the effect of a change from below). Table A1 and Table A2 report regressions from the subsamples by pennies, pounds and tens of pounds.

2.1 Robustness

We test for a variety of robustness concerns

- Limit orders. The effect we see might in some cases be due to limit orders set at left-digit changes. However, while the strike price of the limit order would be at exactly the left-digit change, we see an elevated probability of sale across the range Y0 to Y5.
- Sample selection. We might be worried that our results are somehow due to sample selection. Therefore, we conduct a simulation analysis in which we assign sales randomly to investor × stock × days in each sample. Figure A2 shows that with randomly allocated

sales we see no evidence of discontinuity in the probability of sale when the leftmost digit changes.

- Quarter time period. One might worry that this also somehow creates a selection effect. We therefore conduct the same analysis, with the same results, on samples where the time period is defined as a month in Figure A3 and as a year in Figure A4. See Table A3 for summary statistics and Table A4 and Table A5 for regression estimates.
- Sell-day sample. We see the same result in the sell-day sample in Figure A5, with again the same patterns in sub-samples by pennies, pounds and tens of pounds in Figure A6 and Figure A7. See Table A6 and Table A7 for regression estimates, plus Table A8 and Table A9 for regression estimates using the sub-samples by pennies, pounds and tens of pounds.

2.2 Investor Characteristics

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

- Age: stronger among younger investors (Table 5).
- Gender: no differences (Table 6).
- Portfolio value: stronger among small portfolios (Table 7).
- Tenure: stronger among younger accounts (Table 8).
- Number of Stocks: stronger with fewer stocks (Table 9).

3 Possible Extensions

We should look at the robustness tests used by Hartzmark (2015) as some may be applicable here.

Can we say something about aggregate effects on investor behavior? The effect size in the regressions in very large, so maybe we see some aggregate effects? EQ:[but note that these analysis only work when we use login days. Using market days there is no pattern at all. So any aggregate analysis has to be restricted to login days]

Other angles?

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

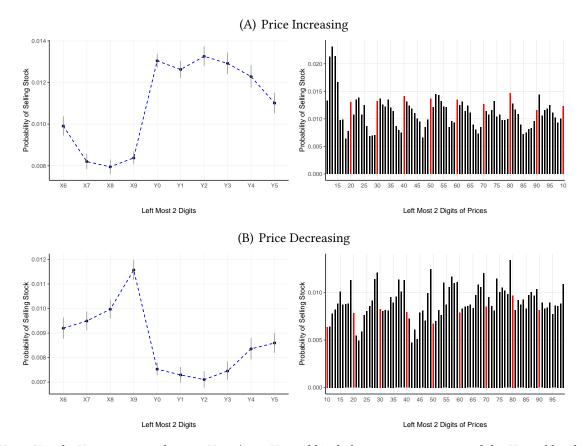
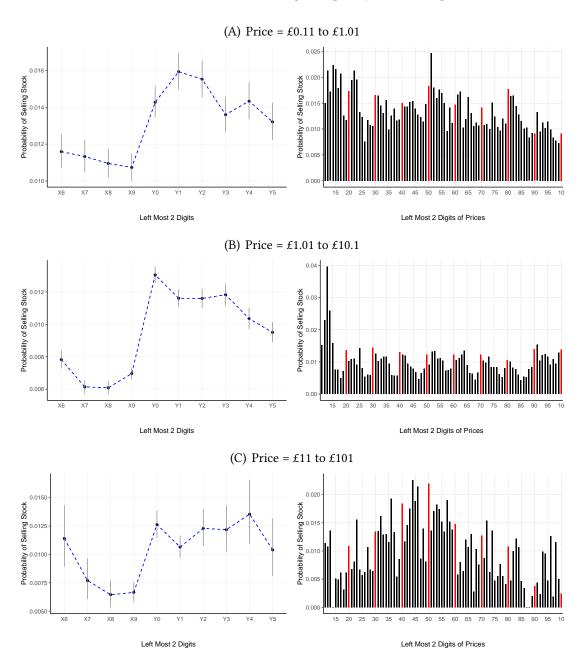
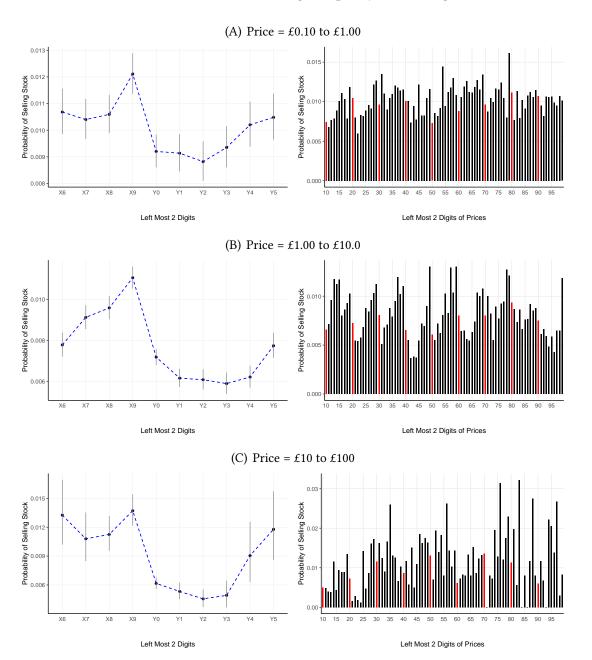


Figure 2: Leftmost Stock Price Digit and Probability of Sale Prices Increasing Sample by Price Range



Note: £*Y* in the X-axes is equivalent to £*X* + 1 (e.g., £*X*9 could include £0.19, £1.9, £19, etc., while £*Y*0 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%.

Table 1: Sample Selection

| | Accounts | Login-Days | Transaction-Days | Sell-Days |
|----------------------------------|----------|------------|------------------|-----------|
| Unrestricted Sample | 45919 | 67734059 | 1228755 | 493041 |
| Drop due to: | | | | |
| Inactive Accounts | 14370 | 7932474 | 46982 | 19562 |
| Unmatched Prices | 306 | 13009351 | 129314 | 49012 |
| At Least Two Stocks in Portfolio | 3062 | 720291 | 76539 | 32652 |
| Missing Demographic Data | 1137 | 1793831 | 37427 | 16400 |
| Starting Position Days | 23 | 367341 | 331557 | 25479 |
| Baseline sample | 27021 | 43910771 | 606936 | 349936 |

 $\it Note:$ The unrestricted sample contains 155,300 accounts. We use a 30% random sample of accounts. The table detail the steps in sample selection.

Table 2: Summary Stats, Quarterly Sample

Panel (A): Baseline Sample

| | N | Mean | St. Dev. | Min | Pctl(25) | Median | Pctl(75) | Max |
|------------------------|------------|-------|----------|-------|----------|--------|----------|------------|
| Price on Login Days £ | 43,910,771 | 7.946 | 26.271 | 0.000 | 1.153 | 3.050 | 7.642 | 15,051.630 |
| Price on Sell Days £ | 3,348,713 | 7.152 | 25.799 | 0.000 | 0.831 | 2.645 | 6.680 | 3,589.000 |
| Price of Stocks Sold £ | 349,936 | 7.322 | 29.887 | 0.000 | 0.856 | 2.689 | 6.717 | 2,057.301 |

Panel (B): Price Increasing Sample

| | N | Mean | St. Dev. | Min | Pctl(25) | Median | Pctl(75) | Max |
|---|-----------|--------|----------|--------|----------|--------|----------|-----------|
| All Stocks | 2,502,903 | 6.437 | 23.513 | 0.000 | 0.739 | 2.992 | 6.175 | 3,600.000 |
| Stocks with Prices Between £0.11 to £1.01 | 616,769 | 0.599 | 0.256 | 0.110 | 0.382 | 0.628 | 0.811 | 1.010 |
| Stocks with Prices Between £1.1 to £10.1 | 1,370,707 | 4.890 | 2.310 | 1.100 | 2.954 | 4.570 | 6.600 | 10.100 |
| Stocks with Prices Between £11 to £101 | 192,406 | 35.681 | 22.229 | 11.000 | 19.720 | 29.780 | 48.040 | 100.995 |

Panel (C): Price Decreasing Sample

| | N | Mean | St. Dev. | Min | Pctl(25) | Median | Pctl(75) | Max |
|--|-----------|--------|----------|--------|----------|--------|----------|-----------|
| All Stocks | 2,528,282 | 4.263 | 20.405 | 0.000 | 0.165 | 1.025 | 4.513 | 3,284.000 |
| Stocks with Prices Between £0.10 to £1.0 | 688,845 | 0.511 | 0.270 | 0.100 | 0.275 | 0.485 | 0.750 | 1.000 |
| Stocks with Prices Between £1 to £10 | 1,096,158 | 4.517 | 2.508 | 1.000 | 2.366 | 4.135 | 6.231 | 10.000 |
| Stocks with Prices Between £10 to £100 | 180,327 | 25.818 | 18.967 | 10.000 | 10.940 | 20.900 | 30.370 | 99.990 |

Table 3: Probability of Sale and Left Digit, Price Increasing Sample

| | | Proba | bility of Sale | $e_{ijt} = 1$ | |
|----------------------------------|-----------|------------|----------------|---------------|------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0042*** | 0.0052*** | 0.0047*** | 0.0052*** | 0.0058*** |
| | (0.0002) | (0.0002) | (0.0002) | (0.0002) | (0.0002) |
| Stock Digits Y0 to Y5 | | -0.0003*** | -0.0004*** | -0.0005*** | -0.0007*** |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | | -0.0004*** | -0.0002** | -0.0002** | -0.0001 |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Constant | 0.0085*** | 0.0080*** | 0.0081*** | | |
| | (0.0002) | (0.0002) | (0.0011) | | |
| 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 | 2,502,903 | 2,502,903 | 2,502,903 | 2,502,903 | 2,502,903 |
| \mathbb{R}^2 | 0.0004 | 0.0004 | 0.0017 | 0.0654 | 0.0715 |

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

| | $Probability\ of\ Sale_{ijt}=1$ | | | | | | |
|----------------------------------|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|
| | (1) | (2) | (3) | (4) | (5) | | |
| Above Y0 = 1 (in Range Y0 to Y5) | -0.0025*** | -0.0040*** | -0.0043*** | -0.0039*** | -0.0039*** | | |
| Stock Digits Y0 to Y5 | (0.0002) | (0.0002) $0.0002***$ | (0.0002) 0.0002*** | (0.0002) $0.0004***$ | (0.0003) $0.0004***$ | | |
| Stock Digits X6 to X9 | | (0.0000) 0.0008*** | (0.0000) 0.0008*** | (0.0000) 0.0005*** | (0.0001) 0.0006*** | | |
| <u> </u> | | (0.0001) | (0.0001) | (0.0001) | (0.0001) | | |
| Constant | 0.0102*** (0.0003) | 0.0112*** (0.0003) | 0.0154*** (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 | 2,528,282 | 2,528,282 | 2,528,282 | 2,528,282 | 2,528,282 | | |
| \mathbb{R}^2 | 0.0002 | 0.0002 | 0.0004 | 0.0678 | 0.0737 | | |

Table 5: Probability of Sale and Left Digit, Splitting by Median Age

| | Prices Increa | asing Sample | Prices Decre | asing Sample |
|----------------------------------|---------------|--------------|--------------|--------------|
| | Below Median | Above Median | Below Median | Above Median |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0071*** | 0.0045*** | -0.0037*** | -0.0042*** |
| | (0.0004) | (0.0003) | (0.0003) | (0.0004) |
| Stock Digits Y0 to Y5 | -0.0009*** | -0.0006*** | 0.0004*** | 0.0005*** |
| | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | -0.0003** | -0.0000 | 0.0007*** | 0.0004*** |
| | (0.0001) | (0.0001) | (0.0001) | (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 | 1,346,559 | 1,156,344 | 1,391,135 | 1,137,147 |
| R^2 | 0.0850 | 0.0520 | 0.0890 | 0.0544 |

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

| | Prices Increasing Sample | | Prices Decre | easing Sample |
|----------------------------------|--------------------------|------------|--------------|---------------|
| | Female | Male | Female | Male |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0056*** | 0.0059*** | -0.0040*** | -0.0039*** |
| | (0.0005) | (0.0003) | (0.0006) | (0.0003) |
| Stock Digits Y0 to Y5 | -0.0006*** | -0.0008*** | 0.0004*** | 0.0004*** |
| | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | -0.0003 | -0.0001 | 0.0007*** | 0.0005*** |
| | (0.0002) | (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 | 429,057 | 2,073,846 | 401,271 | 2,127,011 |
| R^2 | 0.0731 | 0.0730 | 0.0774 | 0.0749 |

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

| | Prices Increa | asing Sample | Prices Decre | asing Sample |
|----------------------------------|---------------|--------------|--------------|--------------|
| | Below Median | Above Median | Below Median | Above Median |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0083*** | 0.0032*** | -0.0046*** | -0.0031*** |
| | (0.0004) | (0.0003) | (0.0004) | (0.0004) |
| Stock Digits Y0 to Y5 | -0.0010*** | -0.0004*** | 0.0004*** | 0.0004*** |
| | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | -0.0002* | -0.0001 | 0.0008*** | 0.0002 |
| | (0.0001) | (0.0001) | (0.0001) | (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 | 1,355,866 | 1,147,037 | 1,408,129 | 1,120,153 |
| \mathbb{R}^2 | 0.0987 | 0.0465 | 0.1054 | 0.0457 |

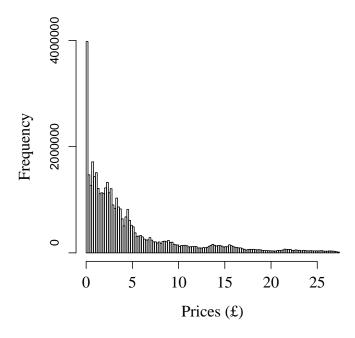
Table 8: Probability of Sale and Left Digit, Splitting by Account Tenure

| | Prices Increa | asing Sample | Prices Decre | asing Sample |
|----------------------------------|---------------|--------------|--------------|--------------|
| | Below Median | Above Median | Below Median | Above Median |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0069*** | 0.0048*** | -0.0045*** | -0.0034*** |
| | (0.0004) | (0.0003) | (0.0003) | (0.0004) |
| Stock Digits Y0 to Y5 | -0.0009*** | -0.0006*** | 0.0005*** | 0.0003*** |
| | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | -0.0002 | -0.0001 | 0.0006*** | 0.0005*** |
| | (0.0001) | (0.0001) | (0.0001) | (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 | 1,235,268 | 1,267,635 | 1,280,279 | 1,248,003 |
| \mathbb{R}^2 | 0.0823 | 0.0607 | 0.0822 | 0.0670 |

Table 9: Probability of Sale and Left Digit, Splitting by Number of Stocks

| | Prices Increa | asing Sample | Prices Decre | asing Sample |
|----------------------------------|---------------|--------------|--------------|--------------|
| | Below Median | Above Median | Below Median | Above Median |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0084*** | 0.0028*** | -0.0044*** | -0.0034*** |
| | (0.0003) | (0.0003) | (0.0004) | (0.0003) |
| Stock Digits Y0 to Y5 | -0.0011*** | -0.0003*** | 0.0004*** | 0.0004*** |
| | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | -0.0002* | -0.0001 | 0.0008*** | 0.0002* |
| | (0.0001) | (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 | 1,420,565 | 1,082,338 | 1,343,898 | 1,184,384 |
| \mathbb{R}^2 | 0.0893 | 0.0336 | 0.0946 | 0.0372 |

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: Sample Selection and Simulation Exercise

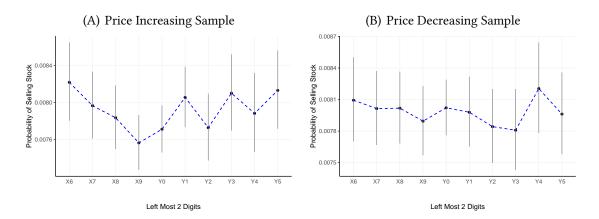


Figure A3: Leftmost Stock Price Digit and Probability of Sale, Monthly Sample

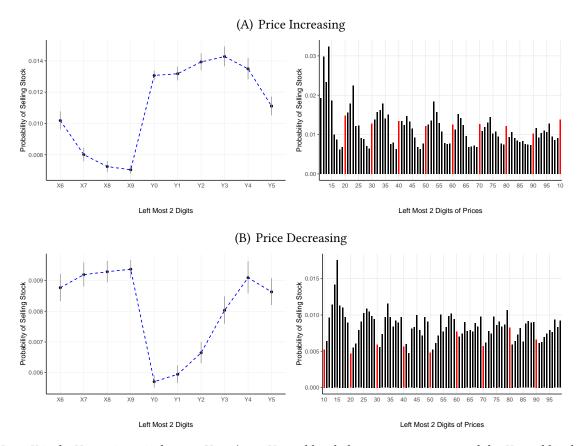


Figure A4: Leftmost Stock Price Digit and Probability of Sale, Annual Sample

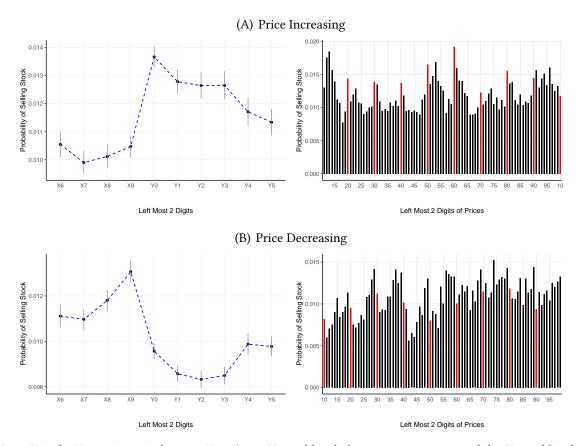


Figure A5: Leftmost Stock Price Digit and Probability of Sale, Sell Days

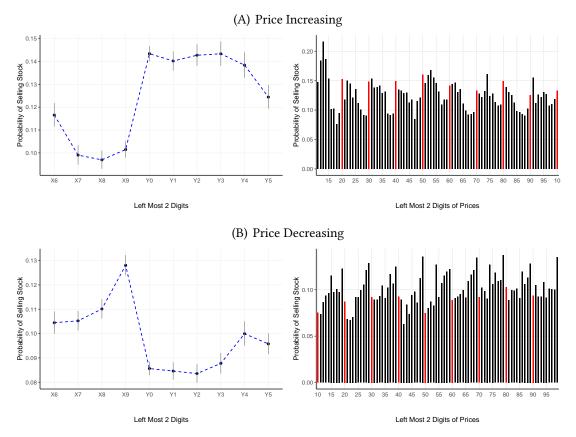
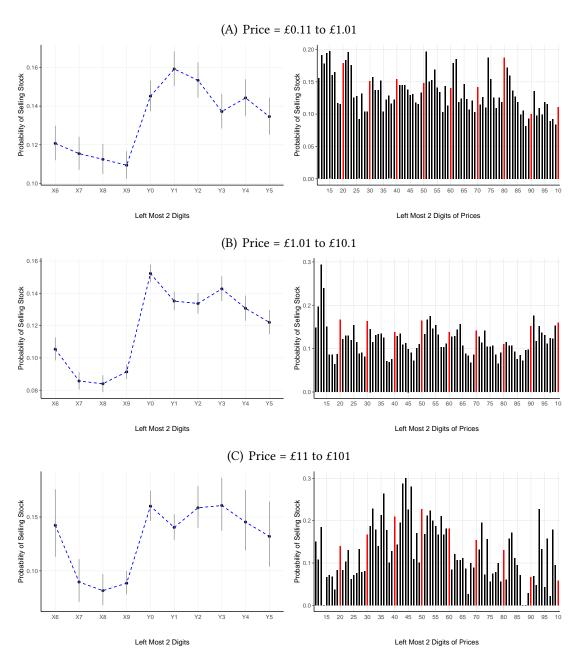
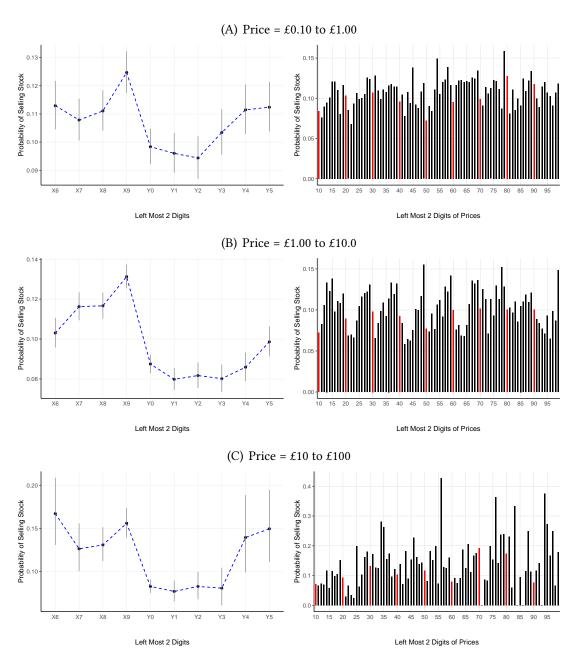


Figure A6: Leftmost Stock Price Digit and Probability of Sale, Sell Days Prices Increasing Sample by Price Range



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 A7: 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 |
|---------|-----|---------|-------|----|-------|
|---------|-----|---------|-------|----|-------|

| | | Proba | ability of Sal | $e_{ijt} = 1$ | |
|----------------------------------|-----------|-----------|----------------|---------------|------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0034*** | 0.0045*** | 0.0041*** | 0.0044*** | 0.0043*** |
| | (0.0003) | (0.0005) | (0.0005) | (0.0005) | (0.0005) |
| Stock Digits Y0 to Y5 | | -0.0003** | -0.0003*** | -0.0004*** | -0.0005*** |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | | -0.0003 | -0.0001 | -0.0003 | -0.0003 |
| | | (0.0002) | (0.0002) | (0.0002) | (0.0002) |
| Constant | 0.0111*** | 0.0107*** | 0.0216*** | | |
| | (0.0004) | (0.0004) | (0.0043) | | |
| 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 | 616,769 | 616,769 | 616,769 | 616,769 | 616,769 |
| \mathbb{R}^2 | 0.0002 | 0.0002 | 0.0014 | 0.0988 | 0.1076 |

Panel (B): Price = £1.01 to £10.1

| | | Proba | bility of Sal | $e_{ijt} = 1$ | |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0049*** (0.0002) | 0.0063*** (0.0003) | 0.0061*** (0.0003) | 0.0061*** (0.0003) | 0.0064*** (0.0003) |
| Stock Digits Y0 to Y5 | (0.0002) | -0.0006*** | -0.0007*** | -0.0006*** | -0.0007*** |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | | -0.0001 | -0.0001 | -0.0001 | -0.0001 |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Constant | 0.0067*** | 0.0065*** | 0.0164*** | | |
| | (0.0002) | (0.0002) | (0.0041) | | |
| 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 | 1,370,707 | 1,370,707 | 1,370,707 | 1,370,707 | 1,370,707 |
| R ² | 0.0006 | 0.0007 | 0.0020 | 0.0716 | 0.0751 |

Panel (C): Price = £11 to £101

| | | Proba | bility of Sale | $e_{ijt} = 1$ | |
|----------------------------------|-----------|--------------|----------------|---------------|------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0046*** | 0.0055*** | 0.0057*** | 0.0073*** | 0.0080*** |
| | (0.0005) | (0.0006) | (0.0006) | (0.0007) | (8000.0) |
| Stock Digits Y0 to Y5 | | -0.0000 | -0.0001 | 0.0002 | 0.0002 |
| | | (0.0002) | (0.0002) | (0.0003) | (0.0003) |
| Stock Digits X6 to X9 | | -0.0011*** | -0.0014*** | -0.0012*** | -0.0012*** |
| | | (0.0004) | (0.0004) | (0.0004) | (0.0004) |
| Constant | 0.0072*** | 0.0063*** | -0.0017** | | |
| | (0.0004) | (0.0005) | (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 | 192,406 | 192,406 | 192,406 | 192,406 | 192,406 |
| R ² | 0.0005 | 0.0005 24 | 0.0028 | 0.1330 | 0.1391 |

Table A2: Price Decreasing Subsamples with Equal Prices Bins

| Panel (A | 1): | Price | = | £0.10 | to | £1. | .00 |
|----------|-----|-------|---|-------|----|-----|-----|
|----------|-----|-------|---|-------|----|-----|-----|

| | | Proba | ibility of Sal | $e_{ijt} = 1$ | |
|----------------------------------|-----------|-----------|----------------|---------------|------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0034*** | 0.0045*** | 0.0041*** | 0.0044*** | 0.0043*** |
| | (0.0003) | (0.0005) | (0.0005) | (0.0005) | (0.0005) |
| Stock Digits Y0 to Y5 | | -0.0003** | -0.0003*** | -0.0004*** | -0.0005*** |
| - | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | | -0.0003 | -0.0001 | -0.0003 | -0.0003 |
| - | | (0.0002) | (0.0002) | (0.0002) | (0.0002) |
| Constant | 0.0111*** | 0.0107*** | 0.0216*** | | |
| | (0.0004) | (0.0004) | (0.0043) | | |
| 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 | 616,769 | 616,769 | 616,769 | 616,769 | 616,769 |
| \mathbb{R}^2 | 0.0002 | 0.0002 | 0.0014 | 0.0988 | 0.1076 |

Panel (B): Price = £1.00 to £10.0

| | | Probal | bility of Sale | $e_{ijt} = 1$ | |
|---|------------|------------|----------------|---------------|------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y0 = 1$ (in Range $Y0$ to $Y5$) | -0.0030*** | -0.0043*** | -0.0046*** | -0.0046*** | -0.0043*** |
| | (0.0002) | (0.0003) | (0.0003) | (0.0003) | (0.0004) |
| Stock Digits Y0 to Y5 | | -0.0000 | 0.0000 | 0.0004*** | 0.0003*** |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | | 0.0010*** | 0.0010*** | 0.0005*** | 0.0006*** |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Constant | 0.0096*** | 0.0109*** | 0.0234* | | |
| | (0.0003) | (0.0004) | (0.0135) | | |
| 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 | 1,096,158 | 1,096,158 | 1,096,158 | 1,096,158 | 1,096,158 |
| \mathbb{R}^2 | 0.0003 | 0.0004 | 0.0008 | 0.0843 | 0.0905 |

Panel (C): Price = £10 to £100

| | | Probal | bility of Sale | $e_{ijt} = 1$ | |
|---|------------|--------------|----------------|---------------|------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above $Y0 = 1$ (in Range $Y0$ to $Y5$) | -0.0066*** | -0.0075*** | -0.0068*** | -0.0060*** | -0.0051*** |
| , , | (0.0007) | (0.0009) | (0.0009) | (0.0009) | (0.0011) |
| Stock Digits Y0 to Y5 | , | 0.0003 | 0.0005** | 0.0006*** | 0.0003 |
| C | | (0.0002) | (0.0002) | (0.0002) | (0.0002) |
| Stock Digits X6 to X9 | | 0.0006 | 0.0010* | 0.0001 | 0.0005 |
| _ | | (0.0005) | (0.0005) | (0.0005) | (0.0006) |
| Constant | 0.0125*** | 0.0131*** | 0.0062*** | | |
| | (0.0007) | (0.0009) | (0.0011) | | |
| 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 | 180,327 | 180,327 | 180,327 | 180,327 | 180,327 |
| R ² | 0.0011 | 0.0011 25 | 0.0034 | 0.1437 | 0.1511 |

Table A3: Summary Stats for Annual and Monthly Samples

| | N | Mean | St. Dev. | Min | Pctl(25) | Median | Pctl(75) | Max |
|---------------------------|-----------|-------|----------|-------|----------|--------|----------|-----------|
| Monthly Increasing Sample | 2,224,458 | 5.646 | 26.950 | 0.000 | 0.561 | 2.735 | 6.060 | 3,600.000 |
| Monthly Decreasing Sample | 2,644,657 | 4.822 | 24.815 | 0.000 | 0.205 | 1.008 | 5.083 | 3,453.000 |
| Annual Increasing Sample | 2,351,131 | 8.338 | 24.526 | 0.000 | 1.073 | 3.672 | 7.350 | 3,600.000 |
| Annual Decreasing Sample | 2,172,299 | 4.084 | 21.423 | 0.000 | 0.155 | 1.077 | 4.256 | 2,062.035 |

Table A4: Price Increasing Samples, Monthly and Annual Samples

Panel (A): Monthly Sample

| | | Proba | bility of Sale | $e_{iit} = 1$ | |
|----------------------------------|-----------|------------|----------------|---------------|------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0055*** | 0.0066*** | 0.0061*** | 0.0064*** | 0.0070*** |
| | (0.0002) | (0.0002) | (0.0002) | (0.0002) | (0.0002) |
| Stock Digits Y0 to Y5 | | -0.0001 | -0.0002*** | -0.0005*** | -0.0008*** |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | | -0.0009*** | -0.0005*** | -0.0002* | -0.0001 |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Constant | 0.0077*** | 0.0068*** | 0.0106*** | | |
| | (0.0002) | (0.0002) | (0.0019) | | |
| 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 | 2,224,458 | 2,224,458 | 2,224,458 | 2,224,458 | 2,224,458 |
| \mathbb{R}^2 | 0.0007 | 0.0007 | 0.0017 | 0.0625 | 0.0692 |

Panel (B): Annual Sample

| | | Proba | bility of Sal | $e_{iit} = 1$ | |
|----------------------------------|-----------|------------|---------------|---------------|------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0024*** | 0.0033*** | 0.0030*** | 0.0038*** | 0.0044*** |
| , , | (0.0002) | (0.0003) | (0.0003) | (0.0003) | (0.0003) |
| Stock Digits Y0 to Y5 | | -0.0004*** | -0.0005*** | -0.0005*** | -0.0007*** |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | | 0.0000 | 0.0001 | -0.0001 | -0.0001 |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Constant | 0.0103*** | 0.0103*** | 0.0079*** | | |
| | (0.0002) | (0.0003) | (0.0011) | | |
| 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 | 2,351,131 | 2,351,131 | 2,351,131 | 2,351,131 | 2,351,131 |
| R^2 | 0.0001 | 0.0001 | 0.0026 | 0.0753 | 0.0819 |

Table A5: Price Decreasing Samples, Monthly and Annual Samples

Panel (A): Monthly Sample

| | | Probai | bility of Sale | $c_{ijt} = 1$ | |
|----------------------------------|------------|------------|----------------|---------------|------------|
| | (1) | (2) | (3) | (4) | (5) |
| Above Y0 = 1 (in Range Y0 to Y5) | -0.0025*** | -0.0038*** | -0.0041*** | -0.0041*** | -0.0043*** |
| | (0.0002) | (0.0002) | (0.0002) | (0.0002) | (0.0002) |
| Stock Digits Y0 to Y5 | | 0.0007*** | 0.0007*** | 0.0007*** | 0.0006*** |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Stock Digits X6 to X9 | | 0.0002* | 0.0003*** | 0.0002** | 0.0004*** |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Constant | 0.0092*** | 0.0094*** | 0.0149*** | | |
| | (0.0003) | (0.0003) | (0.0015) | | |
| 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 | 2,644,657 | 2,644,657 | 2,644,657 | 2,644,657 | 2,644,657 |
| \mathbb{R}^2 | 0.0002 | 0.0003 | 0.0006 | 0.0577 | 0.0625 |

| Panel (B): Annual Sampl |
|-------------------------|
|-------------------------|

| | $Probability\ of\ Sale_{ijt} = 1$ | | | | | |
|----------------------------------|-----------------------------------|------------|------------|------------|------------|--|
| | (1) | (2) | (3) | (4) | (5) | |
| Above Y0 = 1 (in Range Y0 to Y5) | -0.0027*** | -0.0038*** | -0.0041*** | -0.0031*** | -0.0029*** | |
| | (0.0002) | (0.0003) | (0.0003) | (0.0003) | (0.0003) | |
| Stock Digits Y0 to Y5 | | 0.0001 | 0.0000 | 0.0003*** | 0.0003*** | |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) | |
| Stock Digits X6 to X9 | | 0.0007*** | 0.0008*** | 0.0004*** | 0.0004*** | |
| | | (0.0001) | (0.0001) | (0.0001) | (0.0001) | |
| Constant | 0.0118*** | 0.0128*** | 0.0157*** | | | |
| | (0.0003) | (0.0004) | (0.0016) | | | |
| 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 | 2,172,299 | 2,172,299 | 2,172,299 | 2,172,299 | 2,172,299 | |
| \mathbb{R}^2 | 0.0002 | 0.0002 | 0.0005 | 0.0806 | 0.0870 | |

Table A6: Probability of Sale and Left Digit, Price Increasing Sample, Sell Days

| | $Probability\ of\ Sale_{ijt}=1$ | | | | | |
|----------------------------------|---------------------------------|--------------------|--------------------|--------------------|-----------------------|--|
| | (1) | (2) | (3) | (4) | (5) | |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0375*** (0.0023) | 0.0469*** (0.0029) | 0.0439*** (0.0030) | 0.0383*** (0.0028) | 0.0423*** (0.0030) | |
| Stock Digits Y0 to Y5 | (0.0023) | -0.0025*** | -0.0031*** | -0.0031*** | -0.0049*** | |
| | | (0.0006) | (0.0006) | (0.0006) | (0.0006) | |
| Stock Digits X6 to X9 | | -0.0038*** | -0.0023** | -0.0018* | -0.0014 | |
| | | (0.0010) | (0.0010) | (0.0010) | (0.0010) | |
| Constant | 0.1025*** | 0.0977*** | 0.0965*** | | | |
| | (0.0041) | (0.0042) | (0.0120) | | | |
| 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 | 218,875 | 218,875 | 218,875 | 218,875 | 218,875 | |
| \mathbb{R}^2 | 0.0030 | 0.0032 | 0.0109 | 0.2457 | 0.2764 | |

Table A7: Probability of Sale and Left Digit, Price Decreasing Sample, Sell Days

| | $Probability\ of\ Sale_{ijt}=1$ | | | | | |
|----------------------------------|---------------------------------|------------------------|------------------------|------------------------|------------------------|--|
| | (1) | (2) | (3) | (4) | (5) | |
| Above Y0 = 1 (in Range Y0 to Y5) | -0.0246*** (0.0017) | -0.0403*** (0.0026) | -0.0424*** (0.0026) | -0.0326*** (0.0026) | -0.0319*** (0.0027) | |
| Stock Digits Y0 to Y5 | (0.0017) | 0.0025*** | 0.0025*** | 0.0033*** | 0.0037*** | |
| Stock Digits X6 to X9 | | (0.0006) 0.0080*** | (0.0006) 0.0084*** | (0.0005) 0.0043*** | (0.0006) 0.0039*** | |
| | | (0.0011) | (0.0011) | (0.0010) | (0.0010) | |
| Constant | 0.1129*** (0.0034) | 0.1237*** (0.0039) | 0.1466*** (0.0123) | | | |
| 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 | 222,138 | 222,138 | 222,138 | 222,138 | 222,138 | |
| \mathbb{R}^2 | 0.0016 | 0.0021 | 0.0034 | 0.2228 | 0.2511 | |

Table A8: 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 Y0 = 1 (in Range Y0 to Y5) | 0.0323*** | 0.0438*** | 0.0402*** | 0.0237*** | 0.0204*** | |
| | (0.0035) | (0.0049) | (0.0049) | (0.0049) | (0.0049) | |
| Stock Digits Y0 to Y5 | | -0.0029** | -0.0028** | -0.0021* | -0.0023** | |
| | | (0.0013) | (0.0013) | (0.0012) | (0.0012) | |
| Stock Digits X6 to X9 | | -0.0036* | -0.0019 | -0.0015 | -0.0017 | |
| | | (0.0019) | (0.0019) | (0.0020) | (0.0021) | |
| Constant | 0.1139*** | 0.1090*** | 0.2047*** | | | |
| | (0.0062) | (0.0068) | (0.0330) | | | |
| 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 | 60,807 | 60,807 | 60,807 | 60,807 | 60,807 | |
| \mathbb{R}^2 | 0.0022 | 0.0024 | 0.0154 | 0.3453 | 0.3763 | |

Panel (B): Price = £1.01 to £10.1

| | $Probability\ of\ Sale_{ijt}=1$ | | | | | |
|----------------------------------|---------------------------------|------------------------|-----------------------|------------------------|------------------------|--|
| | (1) | (2) | (3) | (4) | (5) | |
| Above Y0 = 1 (in Range Y0 to Y5) | 0.0478*** | 0.0605*** | 0.0587*** | 0.0459*** | 0.0478*** | |
| Stock Digits Y0 to Y5 | (0.0030) | (0.0042) -0.0047*** | (0.0042) | (0.0039) -0.0035*** | (0.0039) -0.0048*** | |
| Stock Digits X6 to X9 | | (0.0009) -0.0029** | (0.0010) -0.0020 | (0.0009) -0.0015 | (0.0009) -0.0009 | |
| Constant | 0.0905*** | (0.0014) 0.0870*** | (0.0014) 0.1290*** | (0.0013) | (0.0014) | |
| | (0.0039) | (0.0041) | (0.0305) | | | |
| 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 | 108,807 | 108,807 | 108,807 | 108,807 | 108,807 | |
| \mathbb{R}^2 | 0.0053 | 0.0057 | 0.0135 | 0.3002 | 0.3192 | |

Panel (C): Price = £11 to £101

| $Probability\ of\ Sale_{ijt} = 1$ | | | | |
|-----------------------------------|--|---|--|---|
| (1) | (2) | (3) | (4) | (5) |
| 0.0586*** | 0.0710*** | 0.0681*** | 0.0490*** | 0.0508*** |
| (0.0064) | (0.0080) | (0.0080) | (0.0092) | (0.0100) |
| | -0.0022 | -0.0027 | 0.0042 | 0.0048 |
| | (0.0029) | (0.0028) | (0.0032) | (0.0033) |
| | -0.0107** | -0.0123*** | -0.0077 | -0.0060 |
| | (0.0043) | (0.0043) | (0.0049) | (0.0051) |
| 0.0918*** | 0.0828*** | -0.0072 | | |
| (0.0052) | (0.0060) | (0.0126) | | |
| NO | NO | YES | YES | YES |
| NO | NO | YES | YES | YES |
| NO | NO | NO | YES | YES |
| NO | NO | NO | NO | YES |
| 15,031 | 15,031 | 15,031 | 15,031 | 15,031 |
| 0.0071 | 0.0075 | 0.0277 | 0.4586 | 0.4800 |
| | 0.0586*** (0.0064) 0.0918*** (0.0052) NO NO NO NO 15,031 | (1) (2) 0.0586*** 0.0710*** (0.0064) (0.0080) -0.0022 (0.0029) -0.0107** (0.0043) 0.0918*** 0.0828*** (0.0052) (0.0060) NO N | (1) (2) (3) 0.0586*** 0.0710*** 0.0681*** (0.0064) (0.0080) (0.0080) -0.0022 -0.0027 (0.0029) (0.0028) -0.0107** -0.0123*** (0.0043) (0.0043) 0.0918*** 0.0828*** -0.0072 (0.0052) (0.0060) (0.0126) NO NO YES NO NO YES NO NO YES NO N | (1) (2) (3) (4) 0.0586*** 0.0710*** 0.0681*** 0.0490*** (0.0064) (0.0080) (0.0080) (0.0092) -0.0022 -0.0027 0.0042 (0.0029) (0.0028) (0.0032) -0.0107** -0.0123*** -0.0077 (0.0043) (0.0043) (0.0049) 0.0918*** 0.0828*** -0.0072 (0.0052) (0.0060) (0.0126) NO NO YES YES NO NO NO YES YES NO NO NO YES NO NO NO YES NO NO NO YES NO NO NO NO 15,031 15,031 15,031 0.0071 0.0075 0.0277 0.4586 |

Table A9: 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 Y0 = 1 (in Range Y0 to Y5) | 0.0323*** | 0.0438*** | 0.0402*** | 0.0237*** | 0.0204*** | |
| | (0.0035) | (0.0049) | (0.0049) | (0.0049) | (0.0049) | |
| Stock Digits Y0 to Y5 | | -0.0029** | -0.0028** | -0.0021* | -0.0023** | |
| | | (0.0013) | (0.0013) | (0.0012) | (0.0012) | |
| Stock Digits X6 to X9 | | -0.0036* | -0.0019 | -0.0015 | -0.0017 | |
| | | (0.0019) | (0.0019) | (0.0020) | (0.0021) | |
| Constant | 0.1139*** | 0.1090*** | 0.2047*** | | | |
| | (0.0062) | (0.0068) | (0.0330) | | | |
| 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 | 60,807 | 60,807 | 60,807 | 60,807 | 60,807 | |
| \mathbb{R}^2 | 0.0022 | 0.0024 | 0.0154 | 0.3453 | 0.3763 | |

Panel (B): Price = £1.00 to £10.0

| | $Probability\ of\ Sale_{ijt}=1$ | | | | | |
|----------------------------------|---------------------------------|-----------------------|-----------------------|-----------------------|----------------------|--|
| | (1) | (2) | (3) | (4) | (5) | |
| Above Y0 = 1 (in Range Y0 to Y5) | -0.0335*** | -0.0470*** | -0.0503*** | -0.0388*** | -0.0346*** | |
| Stock Digits Y0 to Y5 | (0.0026) | (0.0039) 0.0014 | (0.0039) 0.0015 | (0.0039) 0.0032*** | (0.0042) 0.0022** | |
| Stock Digits X6 to X9 | | (0.0009) 0.0086*** | (0.0009) 0.0088*** | (0.0009) 0.0027* | (0.0010) 0.0033** | |
| Constant | 0.1190*** | (0.0017) 0.1298*** | (0.0016) 0.2497** | (0.0016) | (0.0016) | |
| | (0.0037) | (0.0046) | (0.1241) | | | |
| 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 | 86,156 | 86,156 | 86,156 | 86,156 | 86,156 | |
| \mathbb{R}^2 | 0.0031 | 0.0035 | 0.0066 | 0.2877 | 0.3117 | |

Panel (C): Price = £10 to £100

| | $Probability\ of\ Sale_{ijt}=1$ | | | | | |
|----------------------------------|---------------------------------|--------------|------------|------------|------------|--|
| | (1) | (2) | (3) | (4) | (5) | |
| Above Y0 = 1 (in Range Y0 to Y5) | -0.0600*** | -0.0706*** | -0.0620*** | -0.0434*** | -0.0345*** | |
| | (0.0076) | (0.0092) | (0.0092) | (0.0107) | (0.0129) | |
| Stock Digits Y0 to Y5 | | 0.0077*** | 0.0085*** | 0.0057* | 0.0014 | |
| | | (0.0028) | (0.0028) | (0.0032) | (0.0037) | |
| Stock Digits X6 to X9 | | 0.0036 | 0.0053 | -0.0062 | -0.0033 | |
| | | (0.0059) | (0.0060) | (0.0065) | (0.0068) | |
| Constant | 0.1450*** | 0.1482*** | 0.0698*** | | | |
| | (0.0077) | (0.0090) | (0.0167) | | | |
| 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 | 13,233 | 13,233 | 13,233 | 13,233 | 13,233 | |
| \mathbb{R}^2 | 0.0082 | 0.0090 32 | 0.0254 | 0.4376 | 0.4672 | |

References

- Hartzmark, S. M. (2015). The Worst, the Best, Ignoring All the Rest: The Rank Effect and Trading Behavior. *Review of Financial Studies 28*, 1024–1059.
- Lacetera, N., D. G. Pope, and J. R. Sydnor (2012). Heuristic thinking and limited attention in the car market. *American Economic Review 102*(5), 2206–36.
- Poltrock, S. E. and D. R. Schwartz (1984). Comparative judgments of multidigit numbers. *Journal of Experimental Psychology: Learning, Memory, and Cognition 10*(1), 32.
- Shlain, A. S. (2018). More than a penny's worth: Left-digit bias and firm pricing. *manuscript, University of California, Berkeley*.