

# Template for a Business Research Article

## Using the Elsevier Quarto Template

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### Abstract

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*Keywords:* keyword1, keyword2

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## 1. Introduction

This document is a Quarto template for creating an academic paper formatted for potential publication in Elsevier journals. If you have received this document as a PDF, a live version including the code used to create this document can be found at: <https://github.com/eweisbrod/abr>.

Here are some examples of in-text and parenthetical citations. You can use latex citation styles inside a Quarto PDF. To add citations to the paper, you must add the bibtex reference information to the “Bibliography.bib” file that is part of the Quarto project. The easiest way to do this is to look up the paper you wish to cite on Google scholar, then click on the “cite” link below the paper, select bibtex, and cut and paste the reference info into the bib file. The bibtex reference will include a shorthand way to refer to the paper in the latex cite commands (e.g., “blankespoor2019individual”). [Blankespoor et al. \(2019\)](#) is an in-text cite. There are also parenthetical cites (e.g, [Doyle et al., 2006](#); [Livnat and Mendenhall, 2006](#); [Dirk et al., 2018](#); [Bradshaw et al., 2018](#)).<sup>1</sup>

Here is a new sentence with a parenthetical cite at the end ([Easton et al., 2024](#)).

The second time I cite the paper, I think it will use et al ([Easton et al., 2024](#))

## 2. Background and Hypotheses Development

This template includes some formatting for declaring formal hypotheses or research questions. I think these commands require some of the definitions that were set in the preamble above. Here is an example hypothesis related to the data example that will be used in the tables.

**Hypothesis 1 (H1) :** *Ceteris paribus, earnings are less persistent for loss firms than profit firms.*

This hypothesis is easy to motivate based on persistent losses driving a firm out of business, curtailments ([Lawrence et al., 2018](#)), the abandonment option ([Hayn, 1995](#)), etc. However, if we want to define a more open-ended “research question” rather than a “hypothesis,” we could format it this way:

**Research Question 1 (RQ1):** *Are losses less persistent than profits?*

Next, I will provide examples for defining sub-sections and sub-sub-sections.

### 2.1. Example Sub-Section

### 2.2. Another sub-section

#### 2.2.1. This one has a sub-sub-section

## 3. Data and Methodology

### 3.1. Sample Selection

I downloaded some data from WRDS.

### 3.2. Methodology

Papers usually have equations. Here is an example DiD equation:

$$\begin{aligned} \ln(\text{Dependent Measure}) = & \alpha + \beta_1 \text{Post} + \beta_2 \text{Treatment} + \beta_3 (\text{Post} \times \text{Treatment}) \\ & + A \times \text{Controls} + B \times \text{FE} + \epsilon, \end{aligned} \tag{1}$$

where *Post* equals 1 for observations in the post-shock period and 0 otherwise, *Treatment* equals 1 for observations with the treatment and 0 otherwise, *Controls* is a vector of variables listed as “Control Variables” in Appendix [ Table 1], and *FE* are fixed effects.

Here is the regression equation that we use to test [Hypothesis 1](#) , which was defined in [Background and Hypotheses Development](#).

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<sup>1</sup>There are also footnotes.

Footnote: Note that since we have dynamically defined and referred to [Hypothesis 1](#) you can click on it to jump to the place in the text where H1 is defined. We can do the same thing for [Research Question 1](#).

$$ROA_{i,t+1} = \alpha + \beta_1 ROA_{i,t} + \beta_2 LOSS_{i,t} + \beta_3 (ROA_{i,t} \times LOSS_{i,t}) + A \times Controls_{i,t} + B \times FE + \epsilon_{i,t+1}, \quad (2)$$

where  $ROA_{i,t+1}$  ( $ROA_{i,t}$ ) is return on assets for firm  $i$  in year  $t + 1$  ( $t$ ), calculated as earnings before special items divided by ending total assets.  $LOSS_{i,t}$  is an indicator variable that equals 1 for observations with negative earnings before special items and 0 otherwise, and  $Controls$  is a vector of variables listed as “Control Variables” in Appendix 1.  $FE$  are various fixed effects.

### 3.3. Results

We can use LaTeX references to refer/link readers to the tables as we discuss them. If you click the below table numbers they should take you to the associated table. These dynamic references will automatically renumber themselves if additional tables are added or the tables are reordered. Academic papers rarely use bulleted lists, but here is one for fun, and to clearly list the tables that are included in this template:

- Table 2 is an example sample selection table.
- Table 3 is a basic frequency table.
- Table 4 provides descriptive statistics, created using R.
- Table 5 provides a correlation matrix, created in R.
- Table 6 provides an example regression table, created in R.

Here are some examples of inline table references, including references to the relevant equation and hypothesis. Table 5 and Table 6 present the results from estimating Eq. 1. The significantly negative coefficients on  $LOSS_t \times ROA_t$  in Columns (4) and (5) provide some evidence consistent with Hypothesis 1. However, it seems to be important to control for firm characteristics when testing this hypothesis.

- The full results are shown in Table 6.
- **Key Findings:** Basic Model: The ROA coefficient is **0.839**. And the standard error is 0.002. Here we take values from the table to generate direct output.

We can also link a graph or chart [here](#).

#### 4. Appendix

Table 1: Variable Definition

Variable	Definition
<b>Main Dependent and Independent Variables</b>	
$ROA_{i,t}$	Return on assets for firm $i$ in year $t$ , calculated as earnings before special items divided by ending total assets. In terms of Compustat data items, it is defined as $(ib - spi)/at$ .
$LOSS_{i,t}$	An indicator variable that equals 1 for observations with negative earnings before special items and 0 otherwise.
<b>Control Variables</b>	
SIZE	Market value of equity as of the end of fiscal year $t$ (Source: Compustat).
R&D	Research and development expense scaled by ending total assets ( $xrd/at$ ).
TA	Ending total assets ( $at$ ).

Table 2: **Note:** Note: This table describes the sample selection procedure.

Sample Selection Step	Firm-Years
Initial data download from WRDS	194,728
After removing financial and utility firms	136,393
After requiring lead ROA data	127,867
After applying additional screening criteria	86,702
With matching data from secondary database	71,408
Less: firm-years missing control variables	-3,500
Final Analysis Sample	163,269

Table 3: Summary of Firms by Decade

Year	Total Firms	Loss Firms	Pct. Losses
1970 - 1979	25,101	1,978	7.88%
1980 - 1989	29,125	5,315	18.25%
1990 - 1999	38,024	9,579	25.19%
2000 - 2009	37,100	12,822	34.56%
2010 - 2019	28,434	9,671	34.01%
2020 - 2022	5,514	2,516	45.63%
Total	163,298	41,881	25.65%

Table 4: Summary Statistics

	N	Mean	SD	Min	P25	Median	P75	Max
roa_lead_1	163,298	-0.002	0.173	-0.898	-0.009	0.040	0.078	0.237
roa	163,298	0.006	0.159	-0.803	-0.003	0.042	0.079	0.243
loss	163,298	0.256	0.437	0.000	0.000	0.000	1.000	1.000
rd	163,298	0.040	0.086	0.000	0.000	0.000	0.038	0.511
at	163,298	1449.837	4555.996	11.021	41.910	142.534	679.370	33637.256
mve	163,298	1568.688	5317.423	2.127	29.790	125.510	651.281	40596.033

Table 5: Correlation Matrix

	roa_lead_1	roa	loss	rd	at	mve
roa_lead_1	1.000	0.771	-0.569	-0.506	0.096	0.118
roa	0.771	1.000	-0.688	-0.570	0.094	0.119
loss	-0.594	-0.756	1.000	0.354	-0.106	-0.114
rd	-0.105	-0.111	0.202	1.000	-0.068	-0.017
at	0.159	0.153	-0.201	-0.067	1.000	0.854
mve	0.252	0.268	-0.197	0.122	0.852	1.000

Table 6: Regression

	Base	No FE	Year FE	Two-Way FE	With Controls
ROA[t]	0.839*** (0.002)	0.756*** (0.006)	0.769*** (0.015)	0.639*** (0.017)	0.624*** (0.018)
LOSS		-0.030*** (0.001)	-0.028*** (0.004)	-0.015*** (0.002)	-0.017*** (0.002)
ROA[t] $\times$ LOSS		0.032*** (0.007)	0.012 (0.022)	-0.285*** (0.021)	-0.293*** (0.023)
Num.Obs.	163,298	163,298	163,298	161,635	161,635
R2	0.594	0.597	0.603	0.707	0.707
R2 Within			0.580	0.184	0.186

\*  $p < 0.1$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Standard errors in parentheses

\*  $p < 0.1$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Figure 1: Frequency of Losses by Industry

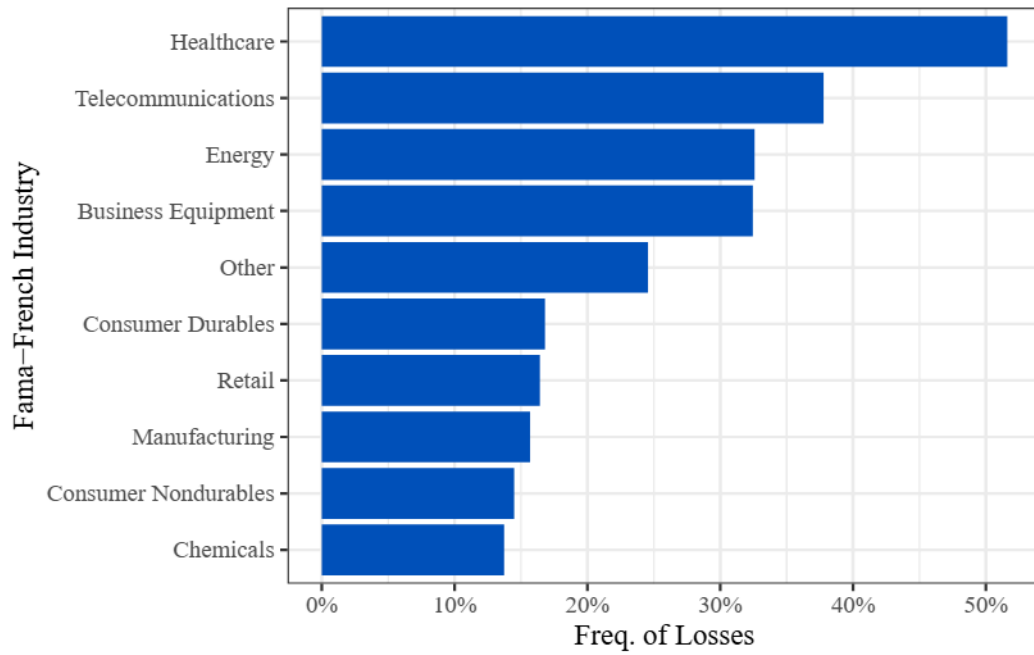
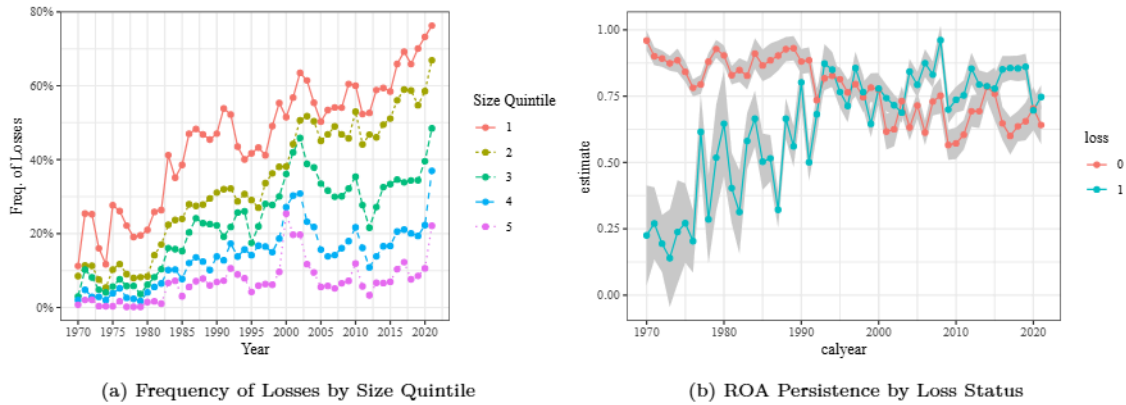


Figure 2: Comparison of Loss Frequency and ROA Persistence





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