

Data Description Sheet - Non-Fundamental Loan Renegotiations

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In compliance with the JAR Data Policy, we provide the following information regarding the empirical data used in the submission entitled “Non-Fundamental Loan Renegotiations.”

To be provided upon initial submission on a separate data description sheet:

1. *A description of which author(s) handled the data and conducted the analyses.*

AJ Chen, Matthew A. Phillips, and Tiange Ye handled the data and conducted the analyses. Predoctoral researchers Ben Zwarg and Oliver Sun assisted with the data matching process but did not perform any analysis.

2. *A detailed description of how the raw data were obtained or generated, including data sources, the specific date(s) on which data were downloaded or obtained, and the instrument used to generate the data (e.g., for surveys or experiments). We recommend that more than one author is able to vouch for the stated source of the raw data.*

- The raw data for LSTA LL100 index constituents were obtained from Morningstar through FTP transfer on 2023-04-29. A complementary version of the same data was obtained on 2023-07-28 to fix one transfer error.
- The raw data for LSTA LLI index constituents data were obtained from Morningstar through FTP transfer on 2023-10-06.
- The raw data for secondary loan pricing and liquidity were obtained from Thomson Reuters Refinitiv on 2023-04-12. The LIN-facilityID mapping from Refinitiv was received on 2023-04-11.
- The raw data for Morningstar Loan Mutual Fund Holdings were obtained through Morningstar Direct on 2024-10-17.
- The raw data for Institutional Loan Volume were obtained through PitchBook on 2023-03-31.
- The raw data for US non-financial corporate loans issued by nonbank institutions from U.S. Flow of Funds Accounts (OLALBSNNCB) were obtained through FRED on 2024-02-13.
- The raw data for Dealscan were obtained through WRDS on 2024-05-26.
- Dealscan-Worldscope link file (to create public firm indicator) is obtained from WRDS on 2023-04-03.
- The raw data for CRSP Loan Mutual Fund Holdings were obtained through WRDS on 2024-06-14.
- The raw data for US High Yield Index Option-Adjusted Spread were obtained through FRED on 2025-11-24 (additional data for revision)

3. *If the data are obtained from an organization on a proprietary basis, the authors should privately provide the editors with contact information for a representative of the organization who can confirm data were obtained by the authors. The editors would not make this information publicly available. The authors should also provide information to the editors about the data sharing agreement with the organization (e.g., non-disclosure agreements, and any restrictions imposed by the organization on the authors). In particular, the authors should indicate if an organization or data provider imposes restrictions on the publication of the results, has not given the authors full control of the relevant data, requires that the results must be reviewed or approved prior to public release of the paper or publication.*

- The Morningstar representative we received data from was John Fickle.
- The Refinitiv representative we received the data from was Eric Trujillo.
- No individual requires that the results be reviewed or approved prior to the public release of the paper or its publication.

4. *A complete description of the steps necessary to download, obtain or collect as well as process the data used in the final analyses reported in the paper. For experimental and survey papers, we require information about the instructions and instruments used to generate the data, subject eligibility and/or selection, as well as any exclusion criteria. The full set of instructions and instruments can be provided in the online appendix.*

Sample selection criteria, data processing and analysis information are provided in the paper. Variable definitions are provided in Appendix A.

Instructions for downloading the raw data are as follows:

- Raw files for loan quote data are referred to as “Historical Loan Price File” from LPC Collateral and will be downloaded as monthly csv files. Code for preprocessing the raw data is provided (see the item#6).
- The CLO trading data are referred to as LPC_Collateral_TradeHistory and will be downloaded as annual excel files. Code for preprocessing the raw data is provided (see the item#6).
- LSTA LL100 and LLI index constituents data are obtained through Morningstar FTP transfer as monthly files. The Morningstar files for the LSTA LL100 and LSTA LLI indices are named “#YYYYMM#_SPBDLL.SPLLC” and “#YYYYMM#_SPBDAL.SPLLCLC”. Code to combine monthly files is provided (see Item#6).
- Morningstar loan mutual fund holdings data are downloaded as csv files from Morningstar Direct.
- Institutional Loan Volume data are downloaded as csv files from Pitchbook
- US Flow of Funds Accounts data are downloaded as csv files from FRED’s website <https://fred.stlouisfed.org/series/OLALBSNNCB>

- US High Yield Index Option-Adjusted Spread data are downloaded as csv files from FRED's website <https://fred.stlouisfed.org/series/BAMLH0A0HYM2>
- Dealscan data are downloaded as csv files from WRDS website <https://wrds-www.wharton.upenn.edu/pages/get-data/lseg/wrds-reuters-dealscan/dealscan/> Code to process the raw data are provided (see the item#6 below).
- CRSP mutual fund data are downloaded as csv files from WRDS website <https://wrds-www.wharton.upenn.edu/pages/get-data/center-research-security-prices-crsp/quarterly-update/mutual-funds/fund-summary/> Code for preprocessing the raw data is provided (see the item#6 below).
- Dealscan-Worldscope link file is downloaded as sas files from WRDS website <https://wrds-www.wharton.upenn.edu/pages/get-data/linking-suite-wrds/dealscan-worldscope-link/>

5. *After downloading or obtaining the raw data, all manipulations of the data should be done via computer programs. The code for these manipulations should be included in the code submitted upon acceptance (see below). No manipulations of raw data can take place manually or outside the computer code provided. If compliance with this requirement is not feasible, the authors need to explain and disclose any manipulations of the raw data (e.g., manually created variables or file conversions). When feasible, we also encourage the authors to share the code that downloads the data.*

All manipulation of the data was done in R. All code for data manipulation of raw data and sample construction is provided (see 1_00_clean_data.R and 2_00_construct_sample.R in item #6). The purpose and procedures of the code are embedded in the code files.

No other manual data adjustments were made.

The only manually created file is the matching file linking Dealscan and LPC loan quote data. Predoctoral researchers Ben Zwarg and Oliver Sun assisted with the data matching process. The matching procedure is rule-based and relies on issuer names and loan characteristics (e.g., size and maturity). Footnote 24 explains the steps for the manual matching process.

Detailed execution instructions for all preprocessing code are provided in README.txt.

To be provided upon acceptance of the paper and prior to publication:

6. *The computer programs (i.e., code) used to (1) convert the raw data into the final dataset used in the analysis, (2) to execute the statistical or econometric analysis, and (3) to generate the tables or to produce the output used in constructing tables of the manuscript. A brief description that enables other researchers to understand and run the code should be provided. The purpose of this requirement is to facilitate replication and to help other researchers understand in detail how the raw data were processed, the final sample was formed, variables were defined, outliers were treated, and which commands were used in the analysis, etc. This code or programming is in most circumstances not proprietary. However, we recognize that some parts of the code or data generation process may be*

proprietary, including from the authors' perspective. Therefore, instead of disclosing the proprietary portion of the code or program, researchers can provide a detailed step-by-step description of the code or the relevant parts of the code such that it enables other researchers to arrive at the same results that the authors obtained and presented in their manuscript. In such cases, the authors should inform the editors upon initial submission, so that the editors can consider an exemption allowing the step-by-step description. Whenever feasible, authors are required to provide the identifiers (e.g., CIK, CUSIP) for their final sample. Authors should consult our FAQ Sheet on the JAR website for further details.

The code files are annotated and include all steps from raw files through analysis output to LaTeX. The code structure is as follows:

- /code/1_code_clean_data/1_00_clean_data.R: MASTER code to run all preprocessing steps and generate the corresponding log file.
 - The MASTER script executes all data cleaning scripts:
 - /code/1_code_clean_data/1_a_PrepDealscan.R
 - /code/1_code_clean_data/1_b_PrepLSTAIndex.R
 - /code/1_code_clean_data/1_c_PrepLPC.R
 - /code/1_code_clean_data/1_d_PrepCLO.R
 - /code/1_code_clean_data/1_e_PrepMF.R
- /code/2_code_construct_sample/2_00_construct_sample.R:
 - The MASTER script executes all sample construction scripts:
 - /code/2_code_construct_sample/2_a_ConstructMainRDDSample.R
 - /code/2_code_construct_sample/2_b_ConstructPreSample.R
 - /code/2_code_construct_sample/2_c_ConstructPlacebo1Sample.R
 - /code/2_code_construct_sample/2_d_ConstructPlacebo2Sample.R
- /code/3_analysis/3_00_analysis_1.R:
 - The MASTER script executes code to generate Table 1-14 and the corresponding log file.
 - /code/3_analysis/analysis_table/Table1.R
 - ...
 - /code/3_analysis/analysis_table/Table14.R
- /code/3_analysis/3_00_analysis_2.R:
 - The MASTER script executes R code to generate Figures 1 and 5 and the corresponding log file.
 - /code/3_analysis/analysis_figure/Figure1.R
 - /code/3_analysis/analysis_figure/Figure5.R
- /code/3_analysis/3_00_analysis_3.do:
 - The MASTER script executes the following STATA do files to generate Figures 2-4 and 6 and the corresponding log file.
 - /code/3_analysis/analysis_figure/Figure2.do
 - /code/3_analysis/analysis_figure/Figure3.do

/code/3_analysis/analysis_figure/Figure4_and_6.do

The code must be executed sequentially in the order listed above. All results in the manuscript can be fully reproduced by executing the provided code. Detailed execution instructions are provided in README.txt.

7. *A comprehensive log file that shows the execution of the entire code. This log file should cover all the steps that convert the raw data into a final dataset and the execution of all statistical and econometric analyses presented in the tables of the manuscript. The portion of the log file that shows proprietary code or data may be masked. In this case, the reader should be referred to the step-by-step description provided as per the requirements in Item 6.*

Comprehensive log files are provided for R and Stata programs.

- 1_log_clean_data.txt contains the R code used to preprocess all raw data
 - 2_log_construct_sample.txt contains the R code used to construct the sample
 - 3_log_analysis_1.txt contains the R code for econometric analysis and results for Table 1-14
 - 3_log_analysis_2.txt contains the R code for econometric analysis and results for Figure 1 and 5
 - 3_log_analysis_3.txt contains the STATA code to generate Figure 2-4, and 6
8. *An assurance that the data and programs will be maintained by at least one author (usually the corresponding author) for at least six years, consistent with National Science Foundation guidelines.*

The authors agree to maintain the data and programs for at least six years.