

Finance PhD Student Tutorial: \LaTeX Workflow

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April 29, 2026

Today's Agenda

Focus: How do I build clean, professional documents which expedite the research process?

1. **Exporting Tables from Stata (10 min):** How do I build summary and regression tables in Stata?
2. **Exporting Figures from R (10 min):** How do I export figures from R?
3. **Introduction to Overleaf (40 min):** How do I build a document in Overleaf and upload tables and figures?

Project Structure and Workflow

Project Contents

- Finalized Data/StataIssuancePanel.dta
- Code/Stata/00_master.do
- Code/Stata/01_make_summary_table.do
- Code/Stata/02_make_regression_table.do
- Code/Stata/03_make_figure.do
- Code/Stata/export_figure_from_r.R
- Overleaf/main.tex
- Overleaf/advanced_main.tex

Suggested Workflow

1. Open the project root in Stata
2. Run Code/Stata/00_master.do
3. This generates:
 - ▶ Output/Tables/TAB_SUMMARY_BOND.tex
 - ▶ Output/Tables/OLS_YIELD.tex
 - ▶ Output/Figures/FIG_YIELD_SCATTER.png
4. Upload outputs + Overleaf/main.tex to Overleaf
5. In Overleaf:
 - ▶ Place files in same folder *or*
 - ▶ Update file paths in main.tex

Building Tables & Figures to Export to L^AT_EX

1. Summary Tables: Run Code/Stata/00_master.do through line 41 through “do
”\$do_path/01_make_summary_table.do”
2. Regression Tables: Run Code/Stata/00_master.do through line 42 through “do
”\$do_path/01_make_regression_table.do”
3. Figures: Run Code/Stata/00_master.do through line 43 through “do
”\$do_path/03_make_figure.do”
 - ▶ Run Code/R/export_figure_from_r
4. L^AT_EX Introduction: Overleaf/main.tex to bring into Overleaf

Before Next Week (1 Hour)

- Explore (30 minutes):
 1. Walk through \LaTeX tutorial
- Implementation (30 minutes):
 1. Convert one of your papers from Word into nice formatting
 2. Clean up your table and figure production to export nicely to \LaTeX