# How (and how much) do debtholders value their rights? FIN9013 Empirical Corporate Finance Research Proposal

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### 1. Introduction

As the central question of agency conflicts, shareholders actively seek to improve their rights, mainly through corporate governance (Gillan and Starks (2000)). Equity investors value their rights and reflect this in their valuation of the firm, as studied in Gompers et al. (2003). However, debtholders' rights are less represented in corporate governance. Rather, the agency conflict between debtholders and management/shareholders is more often resolved through the design of debt contracts. Under the framework of the Agency Theory of Covenants (ATC), Smith and Warner (1979) studied how bond covenants are designed to control the conflict between bondholders and stockholders. Chava et al. (2010) studied how management agency risk is reflected in bond covenants. Diamond (1993) studied how borrowers, who presumably have better information about their own prospects than lenders, can signal their creditworthiness by issuing debt with certain characteristics. Leland (1994) developed a theoretical framework that analytically derived the debt value and yield spread incorporating a set of characteristics including bond covenants. Bradley and Roberts (2015) studied in a private debt setting (loans and private placements) how the structure and pricing of corporate debt are determined by the interaction of the borrower's credit risk and the lender's monitoring and control rights.

As public debt market investors, corporate bond investors usually don't have a chance to discuss their rights directly with management. They are largely covenant takers. Pricing of bonds, which they have a say in, is possibly the only way they can value their rights. Reisel (2014) is the most comprehensive paper in examning the valuation of public bond covenants. However, this paper have several major short falls. 1. The study uses spread over comparable maturiy treasury as yield, which is a very rough measure of credit spread and will very likely have measurement error. Recent developments in corporate bond asset pricing, like Van Binsbergen et al. (2025), allow for better insights into priced and unpriced factors in corporate bonds by stripping out factors from corporate bonds that are priced by the market, allowing for studies of the idiosyncratic risks that are priced. 2. The second stage in the model uses a linear form, with no interaction term. This is unlikely the case in public bond pricing. For instance, credit rating would have a very high multicollinearity with firm characteristics, intuitively. VIF check would likely suggest the same, thus the economical significance of the results are in doubt. 3. The effect of covenant cannot be constant. For instance, the estimated price effect of covenant in their baseline model is 75 basis points for financing constraint covenant, and 60 basis points for investment constraint covenant. This would combined to 135 basis points. However, recent asset pricing literature suggests that for AA rated firms, the credit spread, if adjusted correctly, is only 60 basis points on average. Inclusion of both covenants would unlikely lower the credit spread of AA rated firms by 135 basis points. 4. The price of covenant will also vary in different market conditions. For instance, in bad times when percieved risk is high and investors fly to safe harbor, the price of covenants would very likely be higher.

This study aims to fill in the gap in extant literature. The study will use a proper measure of credit spread, and will use a factor based asset pricing model which will allow firms (bonds) with different characteristics to take on different factor loading, and allow price of risk to vary to represent how investors value covenants.

## 2. Methodologies

The proposed research will examine cross-sectional evidence on how bond covenants affect corporate bond credit spreads. Bond issuance and issuer data will come from FISD, firm fundamentals from Compustat, and bond pricing data from Openbondassetpricing.com, which is a website put together by a couple of researchers on corporate bond asset pricing. The research will compile a bondholder rights measure from provisions on bondholder protection, issuer restriction, and subsidiary restriction. As the same bondholder rights measure would bear different values for different firms, the interaction between the measure and firm characteristics will be accounted for, including credit rating, leverage ratio, Tobin's q, stock volatility, etc., to provide insights on how significant a part covenants can play in different firms. To properly capture treatment effect while avoiding statistical issues in second stage, this study will use Propensity Score matching. Then, a subsample will be studied where the same issuer

has multiple issuances of corporate bonds with different covenant provisions, to study the within-firm variation of bond credit spreads. As a robustness check, the study will control for unobserved heterogeneity with standard error clustering and fixed effects.

## 3. Expected Outcomes

The study aims to find how bondholders value their rights in corporate bond pricing. The results will provide insights into how much bondholders value their rights and how this value varies in firms with different characteristics. The findings will also inform managers about the trade-off between bondholder rights and bond financing costs, helping them make better financing decisions with agency conflicts in mind.

### References

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