# The South African Reality: A Risk Analysis of Yield Spreads

Ronan Morris<sup>a</sup>

 $^aStellenbosch\ University$ 

 $Email\ address:\ {\tt 22876634}\ ({\rm Ronan\ Morris})$ 

#### 1. Introduction

#### 2. Literature Review

# 3. Descriptive Statistics

#### 3.1. Bond Yields

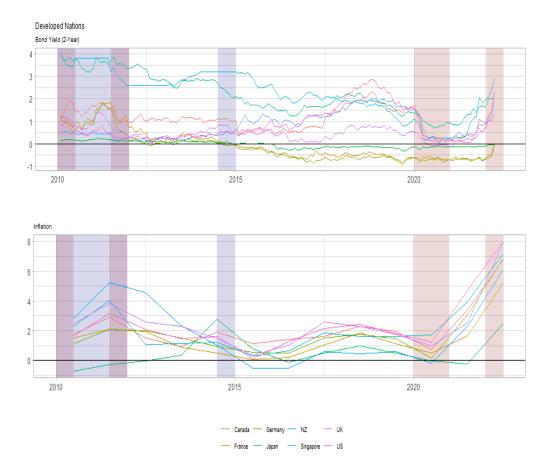


Figure 3.1: Bond Yields of Developed Nations

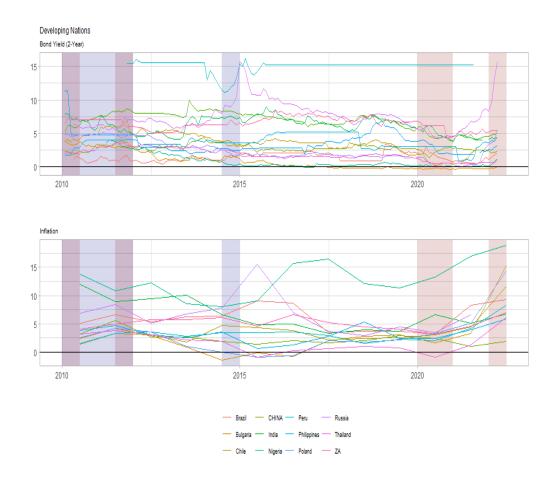


Figure 3.2: Bond Yields of Developing Nations

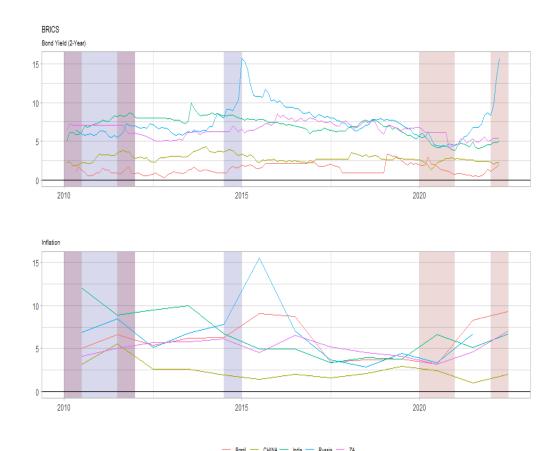


Figure 3.3: Bond Yields of BRICS Nations

#### 3.2. Yield Distributions

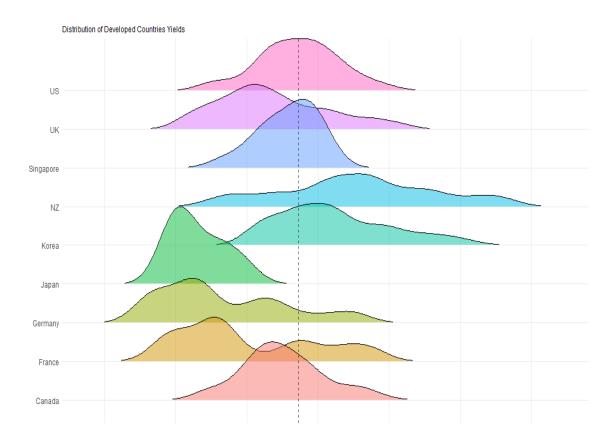


Figure 3.4: Bond Yield Distributions of Developed Nations



Figure 3.5: Bond Yield Distributions of BRICS Nations

# 3.3. Geo-Spatial Analysis

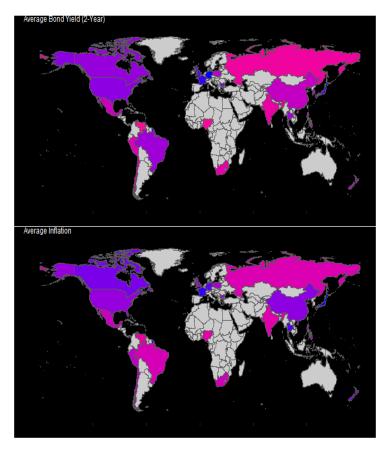


Figure 3.6: Average Bond Yield and Inflation

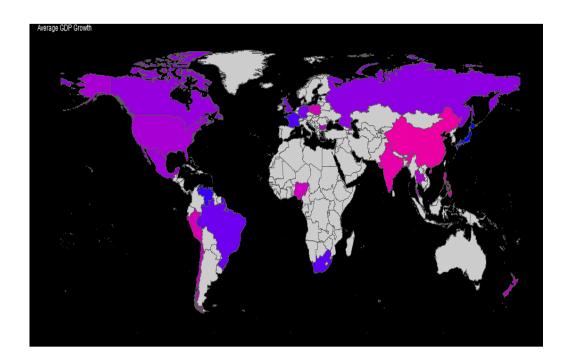


Figure 3.7: Average GDP Growth

# 4. Yield Spreads

# 4.1. Developed Nations

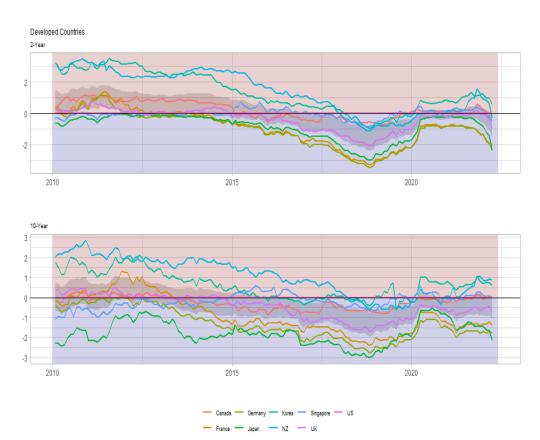


Figure 4.1: Developed World Bond Yield Spreads

#### 10-Year Yield Spread Between South Africa and Germany

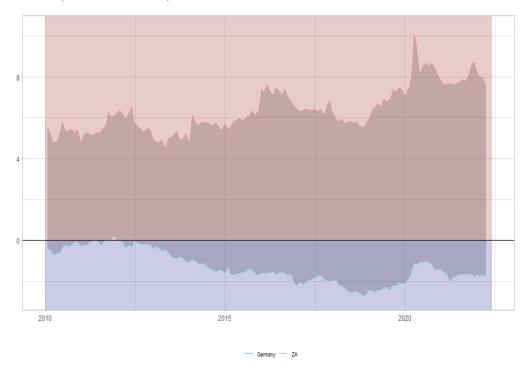
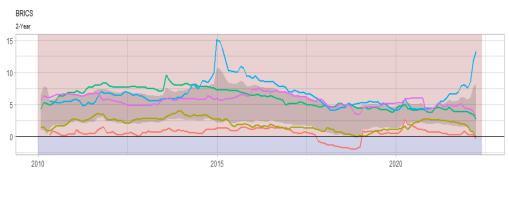


Figure 4.2: South Africa vs Germany Yield Spread

# 4.2. BRICS Nations



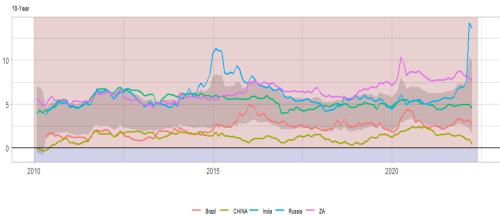


Figure 4.3: BRICS Bond Yield Spreads



Figure 4.4: SA vs China Yield Spread

— CHINA — ZA



Figure 4.5: SA vs India Yield Spread

# 5. Conclusion

#### 6. Bibliography

CBOE Volatility Index: VIX [Online]. [n.d.]. Available: https://fred.stlouisfed.org/series/VIXCLS [2023, December 10].

Consumer Price Index (2010 = 100) [Online]. [n.d.]. Available: https://data.worldbank.org/indicator/FP.CPI.TOTL?end=2022&start=2010&view=chart [2023, December 10].

He, Z., Krishnamurthy, A., & Milbradt, K. 2016. What Makes US Government Bonds Safe Assets? *The American Economic Review*, 106(5):519-523.

Lo Conte, R. 2009. Government Bond Yields: A Survey. Giornale degli Economisti e Annali di Economia, 68(3):341-369.

Ludvigson, S. C. & Serena, N. G. 2009. Macro Factors in Bond Risk Premia. *The Review of Financial Studies*, 22(12):5027-5067.

Manganelli, S. & Wolswijk, G. 2009. What Drives Spreads in the Euro Area Bond Market? *Economic Policy*, 24(58):191-240.

U.S. to Euro Spot Exchange Rate [Online]. [n.d.]. Available: https://fred.stlouisfed.org/series/DEXUSEU [2023, December 10].