YIELD CURVE MODELING AND FORECASTING

THE DYNAMIC NELSON-SIEGEL APPROACH

FRANCIS X. DIEBOLD
GLENN D. RUDEBUSCH

Geert Mesters

Yield Curve Modeling and Forecasting Francis X. Diebold, Glenn D. Rudebusch, 2013-01-15 Understanding the dynamic evolution of the yield curve is critical to many financial tasks including pricing financial assets and their derivatives managing financial risk allocating portfolios structuring fiscal debt conducting monetary policy and valuing capital goods Unfortunately most yield curve models tend to be theoretically rigorous but empirically disappointing or empirically successful but theoretically lacking In this book Francis Diebold and Glenn Rudebusch propose two extensions of the classic yield curve model of Nelson and Siegel that are both theoretically rigorous and empirically successful The first extension is the dynamic Nelson Siegel model DNS while the second takes this dynamic version and makes it arbitrage free AFNS Diebold and Rudebusch show how these two models are just slightly different implementations of a single unified approach to dynamic yield curve modeling and forecasting They emphasize both descriptive and efficient markets aspects they pay special attention to the links between the yield curve and macroeconomic fundamentals and they show why DNS and AFNS are likely to remain of lasting appeal even as alternative arbitrage free models are developed Based on the Econometric and Tinbergen Institutes Lectures Yield Curve Modeling and Forecasting contains essential tools with enhanced utility for academics central banks governments and industry Dynamic Modeling Approach to Forecast the Term Structure of **Government Bond Yields** Min Fu,2013 Since arbitrage free is a desirable theoretical feature in a healthy financial market many efforts have been made to construct arbitrage free models for yield curves However little attention is paid to review if such restriction will improve yield forecast We evaluate the importance of arbitrage free restriction on dynamic Nelson Siegel term structure when forecasting yield curves We find that it doesn't help We also compare these two Nelson Siegel dynamic models with a benchmark dynamic model and show that Nelson Siegel structure improve forecasts for long maturity Global Yield Curve Dynamics and Interactions Francis X. Diebold, 2009 The popular Nelson Siegel 1987 yield curve yields is routinely fit to cross sections of intra country bond yields and Diebold and Li 2006 have recently proposed a dynamized version In this paper we extend Diebold Li to a global context modeling a potentially large set of country yield curves in a framework that allows for both global and country specific factors In an empirical analysis of term structures of government bond yields for the Germany Japan the U K and the U S we find that global yield factors do indeed exist and are economically important generally explaining significant fractions of country yield curve dynamics with interesting differences across Modeling and Forecasting the Yield Curve by an Extended Nelson-Siegel Class of Models Rafael Barros countries de Rezende, 2011 This paper compares the in sample fitting and the out of sample forecasting performances of four distinct Nelson Siegel class models Nelson Siegel Bliss Svensson and a five factor model we propose in order to enhance the fitting flexibility The introduction of the fifth factor resulted in superior adjustment to the data For the forecasting exercise the paper contrasts the performances of the term structure models in association to the following econometric methods quantile

autoregression evaluated at the median VAR AR and a random walk As a pattern the quantile procedure delivered the best results for longer forecasting horizons **Yield Curve Modeling and Forecasting Using Semiparametric Factor Dynamics** Wolfgang Karl Härdle, Piotr Majer, 2012 The Forecasting Power of the Yield Curve, a Supervised Factor **Model Approach** Lorenzo Boldrini, Eric T. Hillebrand, 2015 Forecasting the Yield Curve in a Data-rich Environment Using the Factor-augmented Nelson-Siegel Model ,2010 Modeling and Forecasting the Co-movement of International Yield Curve Drivers Maria Sprincenatu, 2019 Modeling and Forecasting the Yield Curve Under Model Uncertainty Francesco Donati, 2009 We propose a methodology that permits to investigate and forecast the behavior of a variable and its determinants in real time both in the time and in the frequency domain starting from a model designed in the time domain which makes the presentation and evaluation of the results straightforward This paper applies the methodology to the yield curve We extract all the shocks affecting the forward rates and the yields and we divide them into three disjoint classes 1 long run shocks giving rise to possibly permanent effects 2 medium run forces and 3 short run forces giving rise to transitory effects These forces drive the low medium and high frequency component respectively composing the time series of the variables used in the model We explicitly model and estimate such cause and effect relationships The analysis of the shocks and the frequency components provides a timely and comprehensive overview of the nature of the movements in the yields Furthermore using the forecast of the frequency components to forecast the yields enhances forecast accuracy also at long prediction horizons To perform the frequency decompositions to identify the forces governing the evolution of the model variables and to perform the out of sample forecasts we use a dynamic filter whose embedded feedback control corrects for Forecasting the Yield Curve Christian Scheitlin, Daniel Buncic, 2014 The goal of this thesis is to model uncertainty forecast the US Treasury yield curve In order to do so the yield curve will first be modeled by the Nelson Siegel 1987 method with the Diebold and Li 2006 extension and then forecasted The data used is provided by G rkaynak Sack and Wright 2006 The large dataset consists of fitted yields of US Treasury bonds The conclusion of this thesis is that there is evidence that the Diebold and Li 2006 method can be applied to the dataset used The forecasting results show mostly the correct change in direction of the yield curve but lack accuracy The forecasting ability is guite well considering that the model does not include any macro economic factors which are proven to influence the yield curve largely according to the results by Diebold Piazzesi and Rudebusch 2005 Predicting Output Using the Entire Yield Curve Azamat Abdymomunov, 2011 Many studies find that yields for government bonds predict real economic activity Most of these studies use the yield spread defined as the difference between two yields of specific maturities to predict output In this paper I propose a different approach that makes use of information contained in the entire term structure of U S Treasury yields to predict U S real GDP growth My proposed dynamic yield curve model produces better out of sample forecasts of real GDP than those produced by the traditional yield spread model The main source of this improvement is in the dynamic approach to constructing forecasts versus the direct

forecasting approach used in the traditional yield spread model Although the predictive power of the yield curve for output is concentrated in the yield spread there is also a gain from using information in the curvature factor for the real GDP growth prediction

A Dynamic Yield Curve Model with Stochastic Volatility and Non-Gaussian Interactions Geert Mesters, 2014

We develop an econometric methodology for the study of the yield curve and its interactions with measures of non standard monetary policy during possibly turbulent times The yield curve is modeled by the dynamic Nelson Siegel model while the monetary policy measurements are modeled as non Gaussian variables that interact with latent dynamic factors including the yield factors of level and slope Yield developments during the financial and sovereign debt crises require the yield curve model to be extended with stochastic volatility and heavy tailed disturbances We develop a flexible estimation method for the model parameters with a novel implementation of the importance sampling technique We empirically investigate how the yields in Germany France Italy and Spain have been a ected by monetary policy measures of the European Central Bank We model the euro area interbank lending rate EONIA by a log normal distribution and the bond market purchases within the ECB s Securities Markets Programme by a Poisson distribution We nd evidence that the bond market interventions had a direct and temporary e ect on the yield curve lasting up to ten weeks and nd limited evidence that purchases changed the relationship between the EONIA rate and the term structure factors

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