





< Home

Reverse Engineering the Yield Curve

David K. Backus & Stanley E. Zin









WORKING PAPER 4676

DOI 10.3386/w4676

ISSUE DATE March 1994

Prices of riskfree bonds in any arbitrage-free environment are governed by a pricing kernel: given a kernel, we can compute prices of bonds of any maturity we like. We use observed prices of multi-period bonds to estimate, in a log-linear theoretical setting, the pricing kernel that gave rise to them. The high-order dynamics of our estimated kernel help to explain why first-order, one-factor models of the term structure have had difficulty reconciling the shape of the yield curve with the persistence of the short rate. We use the estimated kernel to provide a new perspective on Hansen-Jagannathan bounds, the price of risk, and the pricing of bond options and futures.

Download a PDF

Information on access

Acknowledgements and Disclosures

Download Citation

Related

TOPICS Macroeconomics

Money and Interest Rates

Financial Economics

Portfolio Selection and Asset Pricing

PROGRAMS Asset Pricing

More from NBER

In addition to working papers, the NBER disseminates affiliates' latest findings through a range of free periodicals — the NBER Reporter, the NBER Digest, the Bulletin on Retirement and Disability, the Bulletin on Health, and the Bulletin on Entrepreneurship — as well as online conference reports, video lectures, and interviews.



16th Annual Martin Feldstein Lecture:

Lessons for Economists from the Pandemic

Cecilia E. Rouse, The Brookings Institution and Princeton University July 22, 2024

2024, 16th Annual Feldstein Lecture, Cecilia E. Rouse," Lessons for Economists from the Pandemic"

FELDSTEIN LECTURE

PRESENTER: CECILIA E. ROUSE

Cecilia Rouse, president of the Brookings Institution and a professor at Princeton University, who chaired the Council...



Methods Lectures, Summer Institute 2024:

Analysis and Design of Multi-Armed Bandit Experiments and Policy Learning

Susan Athey, Stanford University and NBER July 25, 2024

<u>2024 Methods Lecture, Susan Athey, "Analysis and Design of Multi-Armed Bandit Experiments and Policy Learning"</u>

METHODS LECTURES

PRESENTER: SUSAN ATHEY

Background Materials:backgroundAthey, Susan, Undral Byambadalai, Vitor Hadad, Sanath Kumar Krishnamurthy, Weiwen Leung...



2024, Economics of Social Security Panel, "Earnings Inequality and Payroll Tax Revenues"

PANEL DISCUSSION

PRESENTERS: KAREN DYNAN, KAREN GLENN, STEPHEN GOSS, FATIH GUVENEN & JAMES PEARCE

National Bureau of Economic Research

Contact Us
1050 Massachusetts Avenue
Cambridge, MA 02138
617-868-3900
info@nber.org
webaccessibility@nber.org

HOMEPAGE

Accessibility Policy Diversity Policy <u>Privacy Policy</u>

FOLLOW







© 2024 NATIONAL BUREAU OF ECONOMIC RESEARCH. ALL RIGHTS RESERVED.