(/)

Home (/) / A-Z Publications (/content/publications) / Annual Review of Financial Economics (/content/journals/financial) / Volume 2, 2010 (/content/journals/financial/2/1) / Article

ANNUAL REVIEW OF FINANCIAL ECONOMICS (/content/journals/financial) Volume 2, 2010 (/content/journals/financial/2/1)

# Portfolio Theory: As I Still See It

Harry M. Markowitz (/search?value1=Harry+M.+Markowitz&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true)<sup>1</sup>

• View Affiliations

Vol. 2:1-23 (Volume publication date December 2010)

First published as a Review in Advance on September 29, 2010

© Annual Reviews

This essay summarizes my views on (a) the foundations of portfolio theory and its applications to current issues, such as the choice of criteria for practical risk-return analysis, and whether some form of risk-return analysis should be used in fact; (b) hypotheses about actual financial behavior, as opposed to idealized rational behavior, including two proofs of the fact that expected-utility maximizers would never prefer a multiple-prize lottery to all single-prize lotteries, as asserted in one of my 1952 papers; and (c) a simple proof of the theorem (which was initially greeted with some skepticism, especially by referees) that investors in capital asset pricing models do not get paid for bearing risk.

**Keyword(s):** capital asset pricing model (/search?value1=%22capital+asset+pricing+model%22&option1=pub\_keyword), Friedman-Savage (/search?value1=%22Friedman-Savage%22&option1=pub\_keyword), MPT (/search?value1=%22MPT%22&option1=pub\_keyword), prospect theory (/search?value1=%22Friedman-savage%22&option1=pub\_keyword), stochastic dominance (/search?value1=%22stochastic+dominance%22&option1=pub\_keyword)

Article Type: Review Article

#### **Most Read This Month**

#### Climate Finance (/content/journals/10.1146/annurev-financial-102620-103311)

Stefano Giglio, Bryan Kelly and Johannes Stroebel pp. 15–36 (22)

#### The Pricing and Ownership of US Green Bonds (/content/journals/10.1146/annurev-financial-111620-014802)

Malcolm Baker, Daniel Bergstresser, George Serafeim and Jeffrey Wurgler pp. 415–437 (23)

# Corporate Culture (/content/journals/10.1146/annurev-financial-092321-124541)

Gary B. Gorton, Jillian Grennan and Alexander K. Zentefis pp. 535–561 (27)

#### Textual Analysis in Finance (/content/journals/10.1146/annurev-financial-012820-032249)

Tim Loughran and Bill McDonald pp. 357–375 (19)

### Climate Stress Testing (/content/journals/10.1146/annurev-financial-110921-101555)

Viral V. Acharya, Richard Berner, Robert Engle, Hyeyoon Jung, Johannes Stroebel, Xuran Zeng and Yihao Zhao pp. 291–326 (36)

### **Most Cited**

ີລ (/rss/content/journals/financial/mostcitedarticles?fmt=rss)

## The Real Effects of Financial Markets (/content/journals/10.1146/annurev-financial-110311-101826)

Philip Bond (/search?value1=Philip+Bond&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true), Alex Edmans (/search? value1=Alex+Edmans&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true), and Itay Goldstein (/search? value1=Itay+Goldstein&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true)
Vol. 4 (2012), pp. 339–360

# Financialization of Commodity Markets (/content/journals/10.1146/annurev-financial-110613-034432)

Ing-Haw Cheng (/search?value1=Ing-Haw+Cheng&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true), and Wei Xiong (/search? value1=Wei+Xiong&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true)
Vol. 6 (2014), pp. 419–441

# Climate Finance (/content/journals/10.1146/annurev-financial-102620-103311)

Stefano Giglio (/search?value1=Stefano+Giglio&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true), Bryan Kelly (/search? value1=Bryan+Kelly&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true), and Johannes Stroebel (/search? value1=Johannes+Stroebel&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true)
Vol. 13 (2021), pp. 15–36

# A Survey of Systemic Risk Analytics (/content/journals/10.1146/annurev-financial-110311-101754)

Dimitrios Bisias (/search?value1=Dimitrios+Bisias&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true), Mark Flood (/search? value1=Mark+Flood&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true), Andrew W. Lo (/search? value1=Andrew+W.+Lo&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true), and Stavros Valavanis (/search? value1=Stavros+Valavanis&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true) Vol. 4 (2012), pp. 255–296

### CEO Compensation (/content/journals/10.1146/annurev-financial-120209-133958)

Carola Frydman (/search?value1=Carola+Frydman&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true), and Dirk Jenter (/search? value1=Dirk+Jenter&option1=author&noRedirect=true&sortField=prism\_publicationDate&sortDescending=true)
Vol. 2 (2010), pp. 75–102

+ More

About Annual Discover Conten	t:	Libraries and Institutions:	Author Resources
What We Do (/about/what-we-do) Press and News (/about/press-center) Careers (/page/about/careers-at-annual-reviews)  Journals A-Z (/co Impact Factor Ra Publication Date: Online Events (/p Article Collection Knowable Magaz (https://annurev.	ntent/publications) nkings (/about/impact-factors) s (/journal/pubdates) sage/events) s (/page/collectionarchive) ine (https://knowablemagazine.org/) publisher.ingentaconnect.com/content/annurev/tca/)Against /www.charleston-hub.com/about/about-against-the-grain/)	Subscribe to Open (\$20) (/\$20)  Librarian Resource Center (/page/librarians/librarian-resource-page) Institutional Administration Dashboard (https://www.annualreviews.org/admin) Institutional Pricing (/page/subscriptions/instchoice) (/action/showInstitutionUsageReport)Against the Grain (https://www.charleston- hub.com/about/about-against-the-grain/)	Article Preparation Submission (/page/authors/ger information). Editorial Principles Policies (/page/authors/edi policies). Contact Us (/page/authors/cor us). Copyright and Permissions (/page/about/copy and-permissions). Article Proposals (/page/authors/aut instructions/unsoli authors)

© Copyright 2024 (/page/about/trademark) | Contact Us (/page/about/contact-us) | Email Preferences (/userpreferencecenter) | Annual Reviews Directory (/db/directory) | FAQs (/page/about/faq) |
Privacy Policy (/page/about/privacy)

in

X @ (https://www.lined.com/company/annual-

(http://decides.com/html//html