

Persistence and Kurtosis in GARCH and Stochastic Volatility Models

[Get access >](#)

M. Angeles Carnero , Daniel Peña , Esther Ruiz

Journal of Financial Econometrics, Volume 2, Issue 2, March 2004, Pages 319–342,
<https://doi.org/10.1093/jjfinec/nbh012>

Published: 01 March 2004 **Article history** ▼

Abstract

This article shows that the relationship between kurtosis, persistence of shocks to volatility, and first-order autocorrelation of squares is different in GARCH and ARSV models. This difference can explain why, when these models are fitted to the same series, the persistence estimated is usually higher in GARCH than in ARSV models, and, why gaussian ARSV models seem to be adequate, whereas GARCH models often require leptokurtic conditional distributions. We also show that introducing the asymmetric response of volatility to positive and negative returns does not change the conclusions. These results are illustrated with the analysis of daily financial returns.

© 2004 Oxford University Press; all rights reserved.

Issue Section: [Articles](#)

You do not currently have access to this article.

Sign in

 [Get help with access](#)

Personal account

- Sign in with email/username & password
- Get email alerts
- Save searches
- Purchase content

Institutional access



Sign in through your institution

[Sign in through your institution](#)

[Sign in with a library card](#)

- [Activate your purchase/trial code](#)
- [Add your ORCID iD](#)

[Sign in >](#)

[Register](#)

[Sign in with username/password](#)

[Recommend to your librarian](#)

Institutional account management

[Sign in as administrator](#)

Purchase

[Subscription prices and ordering for this journal](#)

[Purchasing options for books and journals across Oxford Academic](#)

Short-term Access

To purchase short-term access, please sign in to your personal account above.

Don't already have a personal account? [Register](#)

Persistence and Kurtosis in GARCH and Stochastic Volatility Models - 24 Hours access

EUR €53.00

GBP £44.00

USD \$58.00

Rental



This article is also available for rental through DeepDyve.