

# Data archives as supplement to scholarly journals – where do we stand in Economics?

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ZBW – Leibniz Information Centre for Economics

Expert Conference „Open Access Open Data“

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# Facts about the ZBW

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- Biggest Library worldwide for Economics and Business Studies
- Located in Kiel and Hamburg
- Non-University Institution
- Member of  Leibniz Gemeinschaft
- Infrastructure services for the academic community
  - Digital Information Services
  - Document supply (print and electronic)
  - Publication services 


# Overview

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1. Scholarly Communication in Economics
2. Relevance of Data Policies and Archives for Economics Journals
3. The Advantages of a Data Policy and Data Archives
4. Data Policies and Archives: The Status Quo
5. Example of a Data Archive (Open Access Journal „Economics“)
6. Summary and Recommendations
7. Outlook

# 1. Scholarly Communication in Economics

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- Globalized discipline (English as predominant language)
- Main research findings in peer-reviewed journals
- Top journals in the Social Science Citation Index (SSCI)
- Only a minority is available in  open access
- Preprint culture (Working Papers)
  - Papers mainly freely available
  - For most articles in top journals there is also a preprint version
- High Percentage of empirical works

## 2. Relevance of Data Policies and Data Archives

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- Growing percentage of empirical works
- Increasing awareness about publications based on wrong data
  - „Dispute Over the Economics of File Sharing Intensifies“ **THE CHRONICLE**  
of Higher Education
  - „High Noon der Professoren“ **Handelsblatt**
- Electronic publishing offers new technical possibilities
- Pressure from research funders and peers

### 3. The Advantages of a Journal Data Policy

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- Signal to the research community (->relevance of data!)
- Guide for authors
- Specification is important, e.g.
  - Is the data submission mandatory for publication?
  - Is the data submission part of the peer review?

### 3. The Advantages of Using a Data Archive

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- Structured storage for better data maintenance
- Use of persistent identifiers
- Option to link the data with the publication
- Description via standardized metadata
- Information on data usage rights and IPR
- Options for data visualisation

## 4. Data Archives: The Status Quo (1)



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Based on Bruce D. McCullough (Drexel University, USA):

- In 2003 only 4% of the top Economics Journals had a data policy
- In 2008 this number grew to 20%, but:
  - Most of these Journals don't have a proper data archive, i.e.
    - No repository infrastructure
    - No standardized metadata
    - No persistent identifiers
    - No link to articles
  - Authors only partly comply to the data policies
- Publishers journal homepages do not link to the data



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Patrick Bajari, Han Hong and Stephen P. Ryan

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**No Link to  
Data Sets!**

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### Last-In First-Out Oligopoly Dynamics

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Jeffrey R. Campbell

Go to: [Data And Programs](#); [Proofs](#);

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## 4. Data Archives: The Status Quo (2)

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McCulloughs conclusions:

1. *„Traditional economics journals have a major impediment to adopting data+code archives: the publisher generally handles all aspects of the journal’s web-presence, and getting a publisher to manage the archive is nigh on impossible.“*
2. *„The OA journals already get their articles disseminated faster and can have a higher impact (...) They need to increase the impact of their articles even more (...) This can be achieved via mandatory data+code archives“*



## 5. Data Archives in Open Access Journals - „Economics“ as an Example

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- „Economics“ is an e-only Open-Access-Journal
- Published by the  together with ZBW
- Launch in 2007
- Since 2009 data policy: Authors of empirical studies must hand in *„the data, programs, and other details of the computations“* on acceptance of their papers
- Data archiving in a specialised data repository
- The datasets are displayed on the journal website together the journal articles

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## Journal Article

Nr. 2009-36 | September 29, 2009

[Corresponding Discussion Paper](#)

Damien Challet, Sorin Solomon, and Gur Yaari

### The Universal Shape of Economic Recession and Recovery after a Shock

(Published in Special Issue [Reconstructing Macroeconomics](#))

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## Abstract

We show that a simple and intuitive three-parameter equation fits remarkably well the evolution of the gross domestic product (GDP) in current and constant dollars of many countries during times of recession and recovery. We then argue that this equation is the response function of the economy to isolated shocks, hence that it can be used to detect large and small shocks, including those which do not lead to a recession; we also discuss its predictive power. Finally, a two-sector toy model of recession and recovery illustrates how the severity and length of recession depends on the dynamics of transfer rate between the growing and failing parts of the economy.

## Dataset

Datasets for articles published in "Economics" are available at [Dataverse](#). Please have a look at our [repository](#).

The dataset for this article can be found at: <http://hdl.handle.net/1902.1/13849>

## JEL Classification

C32 O23 O41

## Citation

Damien Challet, Sorin Solomon, and Gur Yaari (2009). The Universal Shape of Economic Recession and Recovery after a Shock. *Economics: The Open-Access, Open-Assessment E-Journal*, Vol. 3, 2009-36. <http://www.economics-ejournal.org/economics/journalarticles/2009-36>

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Alejandro Justiniano, Giorgio E. Primiceri, Andrea Tambalotti:  
[Investment Shocks and Business Cycles](#)

Frank Smets, Rafael Wouters:  
[Comparing Shocks and Frictions in US and Euro Area Business Cycles: A Bayesian](#)

## THE UNIVERSAL SHAPE OF ECONOMIC RECESSION AND RECOVERY AFTER A SHOCK [DATASET]

hdl:1902.1/13849

Version: 1 – Released: Thu Nov 26 05:29:34 EST 2009

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## Metadata

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### Data Citation Details

Study Global ID	<a href="http://hdl.handle.net/1902.1/13849">hdl:1902.1/13849</a>
Authors	Damien Challet (Université de Fribourg and Institute for Scientific Interchange, Turin); Sorin Solomon (Racah Institute of Physics, Jerusalem, and Institute for Scientific Interchange, Turin); Gur Yaari (Racah Institute of Physics, Jerusalem, and Institute for Scientific Interchange, Turin)
Production Date	2009
Distributor	Economics: The Open-Access, Open-Assessment E-Journal 
Distributor Contact	Korinna Werner-Schwarz (Kiel Institute for the World Economy), <a href="mailto:korinna.werner-schwarz@economics-ejournal.org">korinna.werner-schwarz@economics-ejournal.org</a>
Distribution Date	2009
Deposit Date	November 03, 2009

## 6. Summary

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- Growing importance of research data in empirical economics
- Economics journals begin to adopt data policies
- Licensed journals are leading the way here, but also first OA-Journals
- In most cases the data sets are available in Open Access
- Most journals do not store the data in a data repository
- Publishers do not link to the datasets in their journal portals
- The authors do not fully comply to the data policies



## 6. Recommendations

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- Managing the archive should be an editorial function
- The archive must be mandatory:

*Example from Data Policy of „German Economic Review“:*

*„Empirical papers will from now on only be accepted conditional on either:*

- submitting the data as supplementary evidence*
  - after establishing a reliable link to some website where the data can be downloaded for re-estimation and testing*
  - after providing a detailed description of how to access the data otherwise“*
- Data should be archived in data repositories (standardization)

## 7. Outlook

### a) Registration Service for DOIs (together with GESIS)

- ZBW is now a member of DataCite
- Editors of Economics Journal can get DOIs for their Data Archives  
-> Better Chance for data visibility and linking to articles



### b) DFG-funded Project: „European Data Watch Extended“ (EDaWax)

- Aim: Creating a data archive for the „Journal of Applied Social Sciences“:
  - Setting up a data repository
  - Access rights regulation
  - Workshop with Economics journal editors
- Partners: ZBW, RatSWD and LMU Munich



# Thank You!

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