

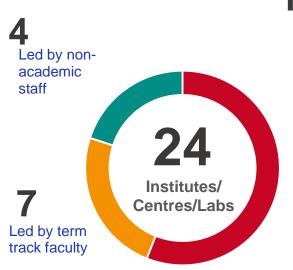




SMU at a glance, across the 6 schools

Full-time Faculty

361



13

Led by tenured/ten ure track faculty Professional Master's Students

1,549

Professional Master's Programmes

Professional Doctorate Students

142

Doctoral Programmes

Academic Research

Professional Doctorate

Undergraduates

175

Academic Research

PhD Students

8,000

Undergraduate Majors

24

Undergraduate Programmes

6

School of Accountancy Lee Kong Chian School of Business

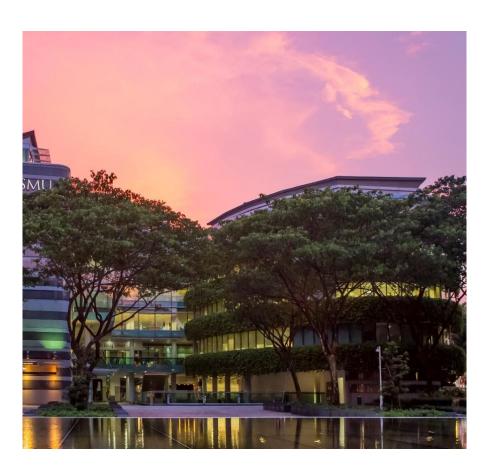
School of Economics School of Social Sciences

School of Law

School of Information Systems



SMU Libraries







Quick facts: SMU Libraries

- Over 462,000 books (Over 400,000 e-books)
- Access to 80,000+ e-journals
- 170+ electronic databases
- More than 2.8 million downloads from institutional repository
- Over 1.27 million visitors in 2018
- 39 staff: 19 professional librarians





What We Did

Examined the policies of the 74 general and field-specific Economics journals listed in the *Tilburg University Top 100 Economics School Research Ranking* database.

Why?

- To gain a broad understanding of the current state of data policies in economics journals
- Better informed in our advisory role to faculty in SMU's School of Economics (SOE)



SMU's School of Economics

and the Tilburg University Top 100 Economics School Research Ranking

1ST TOP 10 WORLDWIDE

for Econometrics Research, and 79th worldwide for overall Economics research in the Tilburg University Economics Schools Research Ranking based on contributions from 2013 to 2017



Top 100 Worldwide Economics Schools

Based on publications over a 5-year period in 68 leading economics journals

50 full-time faculty from around the world

with a wide range of expertise, from Econometrics, International Trade, Urban and Real Estate Economics, Health Economics and Labour Economics, to Macroeconomics, Game Theory and Mechanism Design and many more **Research Question**

WHAT PROPORTION OF ECONOMICS JOURNALS ON THE TILBURG LIST HAVE DATA AVAILABILITY POLICIES IN PLACE?

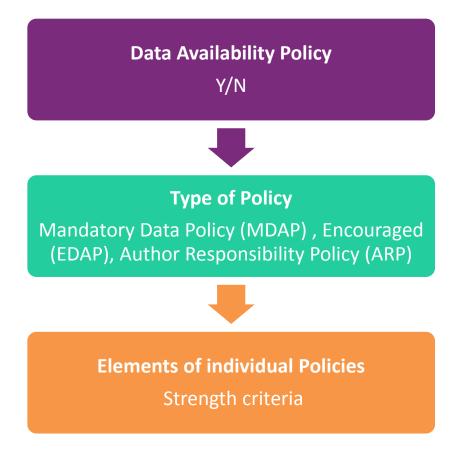


Methods

- **Exploratory** categories depended on what characteristics we would find in the policies
- 3 phases of analysis:
- i) Pilot examination of initial 10 journal policies
- ii) Full analysis of all 74 journal policies
- iii) Re-examination of policies and criteria
- Analysis of text Systematically examined the author submission guidelines and data availability policies for key vocabulary, including eg "policy", "data", "must", "strongly encouraged" etc.
- Identified and defined criteria indicative of strength



Process of Analysis





Criteria - Indicative of Strength

- Type of Policy mandatory policies
- Separate policy/section substantial separate section encompassing both words 'data' AND 'policy'.
- **Discipline-specific requirements** for Economics distinguishes between Empirical papers and Experimental papers
- Required components data, code, software, readme files etc.
- Exemptions process for exemptions for proprietary, commercial, or confidential data
- Clear instructions, comprising of
- i) Timing of deposit eg. on submission; upon acceptance; prior to publication
- ii) Location of deposit eg. specified data repository; alongside article as a file



Transparency and Openness Promotion (TOP) Guidelines

	Not Implemented	Level I	Level II	Level III
Citation Standards	Journal encourages citation of data, code, and materials, or says nothing.	Journal describes citation of data in guidelines to authors with clear rules and examples.	Article provides appropriate citation for data and materials used consistent with journal's author guidelines.	Article is not published until providing appropriate citation for data and materials following journal's author guidelines.
Data Transparency	Journal encourages data sharing, or says nothing.	Article states whether data are available, and, if so, where to access them.	Data must be posted to a trusted repository. Exceptions must be identified at article submission.	Data must be posted to a trusted repository, and reported analyses will be reproduced independently prior to publication.
Analytic Methods (Code) Transparency	Journal encourages code sharing, or says nothing.	Article states whether code is available, and, if so, where to access it.	Code must be posted to a trusted repository. Exceptions must be identified at article submission.	Code must be posted to a trusted repository, and reported analyses will be reproduced independently prior to publication.

	nothing.					
Study Preregistration	Journal says nothing.	Article states whether preregistration of study exists, and, if so, where to access it.	Article states whether preregistration of study exists, and, if so, allows journal access during peer review for verification.	Journal requires preregistration of studies and provides link and badge in article to meeting requirements.		
Analysis Plan Preregistration	Journal says nothing.	Article states whether preregistration of study exists, and, if so, where to access it.	Article states whether preregistration with analysis plan exists, and, if so, allows journal access during peer review for verification.	Journal requires preregistration of studies with analysis plans and provides link and badge in article to meeting requirements.		
Replication	Journal discourages submission of replication studies, or says nothing.	Journal encourages submission of replication studies.	Journal encourages submission of replication studies and conducts results blind review.	Journal uses Registered Reports as a submission option for replication studies with peer review prior to observing the study outcomes.		



FINDINGS

Proportion with policies

N = 74

Data Availability Policy

75.7%

56 Journals

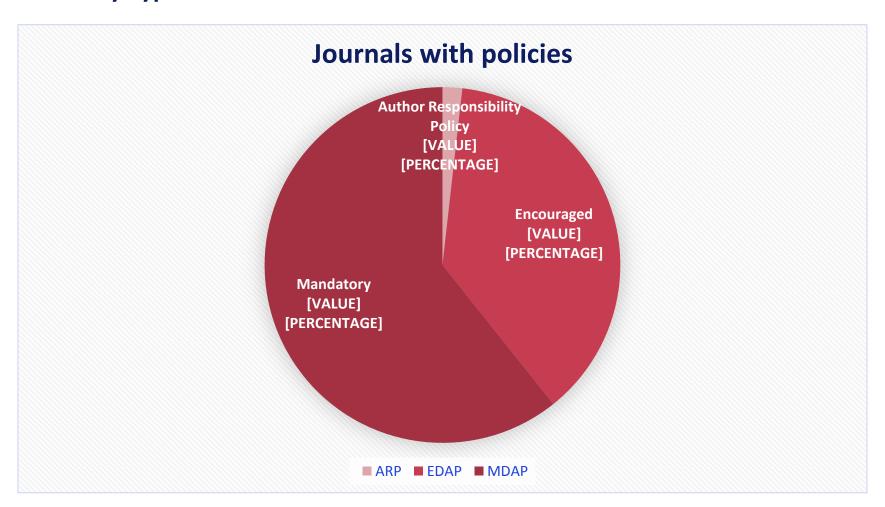
No Policy

24.3%

18 Journals

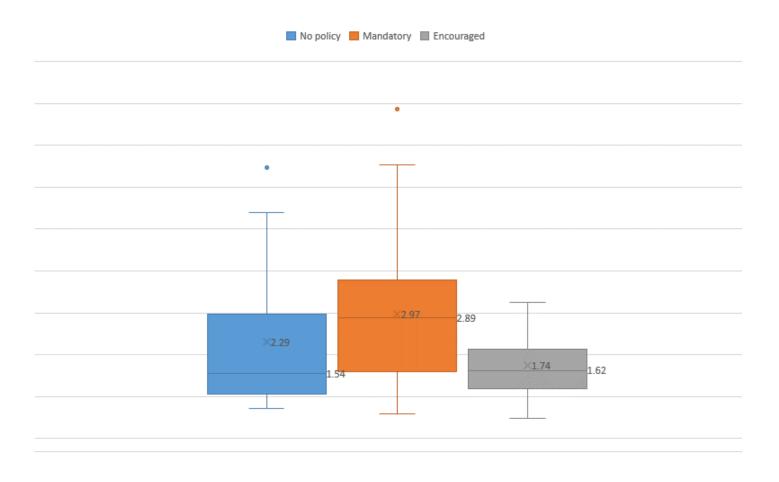


Policy Type





JCR Impact Factor – by Policy Type





Strength Categories - Economics Journals

Category 1 – Very Strong

Separate mandatory policy with clear instructions regarding exemptions, timing and deposit of data & code.

- Category 2 Strong
 Separate data policy -mandatory
- Category 3 Moderate
 Mandatory data policy within author submission guidelines/instructions
- Category 4 Weak
 Encourages data availability
- Category 5 No Policy
 No policy requiring data availability





Strength Categories N = 74

Level II TOP-

only 29%

Not Implemented TOP AEJ - Applied Economics, AEJ - Economic Policy AEJ - Macroeconomics, AEJ - Microeconomics American Economic Review, Brookings Papers on Economic Activity Econometrica, Econometrics Journal Economic Journal, Economic Policy, international Economic Review 21 Journal of Economic Literature, Journal of Economic Perspectives Journal of Human Resources, Journal of Labor Economics Journal of Law and Economics, journal of Law, Economics and Organization Journal of Political Economy, Journal of the European Economic Association Quarterly Journal of Economics, Review of Economic Studies Scandinavian Journal of Economics, Review of Economics and Statistics, Oxford Economic Papers - New Series 3 Economics Letters, Journal of Applied Econometrics Journal of Development Economics, Journal of Econometrics Journal of Economic History, Journal of International Economics, Journal of the American Statistical Association Journal of the Royal Statistical Society Series A - Statistics in Society, Journal of the Royal Statistical Society Series 10 B - Statistical Methodology, World Bank Economic Review Games and Economic Behavior, International Journal of Industrial Organization Journal of Banking and Finance, Journal of Business and Economic Statistics Journal of Economic Theory, Journal of Environmental Economics and Management Journal of Financial Intermediation, Journal of Health Economics, Journal of Mathematical Economics, Journal of Monetary Economics, Journal of Money, Credit and Banking Journal of Public Economics, Journal of Risk and Uncertainty, Journal of Urban Economics Land Economics, Public Choice, Review of Economic Dynamics, World Development

Very Strong

No Policy



Summary of Findings

- Overall optimistic, with 56 out 74 Journals (75.7%) on the Tilburg list with some form of data availability policy in place
- 34 are mandatory policies
- Appears to have some relationship to impact factor, with median IF for Mandatory policies higher at 2.89, as opposed to Journals without data availability policies at 1.54
- Many have yet to adopt the TOP guidelines for Data Transparency and Analytic Methods Transparency
- Still plenty of potential, especially for the 21 non-mandatory policies



Limitations

- Based solely on the policies, rather than on compliance and actual submissions. Compliance and enforceability of policies lies outside the scope of this project.
- Based on a set of criteria which involved some level of judgement and subjectivity.
- Sample size of 74 Journals

Potential Next Steps

- Investigate actual practice and how data availability policies translate into compliance
- Explore if there exists a relationship between journal data policies and faculty publishing choices



Thank You

Q & A

Singapore Management University

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