

Leadership in Scholarship: Editors' Influence on the Profession's Narrative*

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Abstract

Academic journals disseminate new knowledge, and therefore can influence the direction and composition of ongoing research by choosing what to publish. We study the influence of editors and coeditors of the *American Economic Review* (*AER*) on the topic structure of papers published in the *AER* between 1976 and 2013 using a textual analysis of manuscripts. We compare *AER*'s topic structure to that of the other top general interest journals. The appointment of new *AER* editors, while accompanied by a minor comovement of *AER* topics towards topics of editor's post-appointment publications, serves more to premeditate trends in the other Top 5 journals.

JEL CLASSIFICATION: A11, A14, O3

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1 Introduction

Publishing in top Economics journals is increasingly competitive (Hamermesh, 2013) and extremely rewarding (Attema et al., 2014). Short-term rewards, such as promotions and grant awards, are prone to depend not only on publication content, but also on journal prominence and publication counts (Heckman and Moktan, 2018). This creates a tradeoff between publishing what one thinks is important and what one thinks is likely to be published¹. A new editor taking office in an influential journal may motivate researchers who seek recognition to steer knowledge generation towards the topics preferred by this editor. How strongly is the topic structure of a journal driven by editors' preferences in their own research?

To answer this question, we focus on editors and coeditors of the *American Economic Review* (*AER*) taking office between 1985 and 2011². We employ a fine-grained textual analysis on the full texts of individual articles to identify the topics that emerge in the *AER* and the other leading general interest journals³ as well as in editors' own research. We analyze how a new editor's topic frequencies comove with topic frequencies observed in the *AER* before and during that editor's tenure. The other Top 5 constitute our control group.

We establish that the appointment of a new editor statistically anticipates changes in the topics of papers published in the other Top 5, namely the topic frequencies observed in the other Top 5 during an editor's term at the *AER* tend to align with the editor's profile. The positive relationship of the editor's topics persists when the time window of our analysis is altered; the coefficients are also qualitatively robust to changes in topic counts. We remain agnostic about cause and effect: the comovement of *AER* editors' topics and topics published in the other Top 5 could be either due to the *AER*'s ability to appoint editors according to

¹Ruhm (2018) argues methodological requirements might avert scholars away from important topics.

²Editors and coeditors wield equal decision making power in the *AER*, whereas associate editors do not. We thank Dan Hamermesh for pointing out this, and past editors of the *AER* for confirmation. In the rest of this paper we refer to editors as well as coeditors as *editors*.

³Namely the *Quarterly Journal of Economics* (*QJE*), the *Journal of Political Economy* (*JPE*), *Econometrica*, and the *Review of Economic Studies* (*REStud*). These journals together with the *AER* make up the top group of the journal ranking documented by Combes and Linnemer (2010), moreover, these are the conventional Top 5 economics journals that most academic economists would agree on (cf Heckman and Moktan, 2018). In what follows, we refer to the above four leading general interest journals (Top 5 excluding the *AER*) as the *other Top 5*.

future trends of the profession or due to the signaling effect that these appointments have on the profession's decision making on which topics to develop.

2 Literature Review

We contribute to the empirical literature on knowledge dissemination by showing that editors can affect the profession not only through their professional networks and their ties (Brogaard et al., 2014, Card and DellaVigna, 2017, Colussi, 2018, Medoff, 2003), but also through their influence of the topics and the narrative structures that appear in journals.

In our preliminary analysis in Section 3.2, we investigate dynamics of topics covered by papers published in the *AER*, and, using topics suggested by machine learning instead of JEL codes, we obtain patterns similar to those documented in Figure 7 of Card and DellaVigna (2013) and in Figure 2 of Angrist et al. (2017). While the JEL codes are quite generic, there is little clarity about their persistence: it is not clear, for instance, if a paper on job market signaling would be best categorized as a Micro paper, a Labor paper, or both, with 50-50 allocation; and whether the decision regarding the allocation of such a paper to JEL codes would be the same in the 1990s and in the 2010s. When new topics arise or old topics fade away, the pre-defined JEL classifications are hardly ever adapted accordingly. Thus, new topics may be disguised under either very generic or rather odd JEL codes. Over time, this can lead to overcrowding of some classes and depopulation of others (Kosnik (2018) uses about 10 topics per JEL code). Even a reform of the classification system such as the one in 1990 brings inconsistencies of its own that complicate the investigation of the continuous development of topics (Cherrier, 2017).

Our approach does not suffer from this problem. It continuously tracks changes in topics and terminology, with no sudden artificial breaks. As long as the terminology persists, topics are assigned in the same way. Glandon et al. (2018) avoid using JEL codes in their analysis and classify macroeconomic papers manually, because JEL codes cannot capture the nuance of difference research areas within macroeconomics. What constitutes macroeconomics changes in time; while the proportion of macroeconomic papers, according to Angrist et al. (2017), remained the same, DSGE methodology became more prominent.

An overview of the methodology and research applications of textual analysis is described in [Gentzkow et al. \(2017\)](#). Analysis of similarity between different text data has been used in various settings. For instance, [Li \(2017\)](#) investigates the quality of NIH grant applications by using a similarity measure between texts of NIH grant applications and publications. It becomes possible to find out what publications are directly linked to a specific NIH grant. We use a similar text analysis that quantifies vectors of topic frequencies of all publications in the *AER*, in the other Top 5, and in editors' own publications to measure topic similarity.

In studying publication patterns, a methodology similar to ours was applied by [Mela et al. \(2013\)](#) and [Huber et al. \(2014\)](#) to marketing literature. While they show that editors throughout their tenure feature different mixes of topics, they do not speculate why the topics of the text corpus moved in a certain direction. Similarly, [Angrist et al. \(2017\)](#) study the development of economic literature over time. While finding little evidence for change in the composition of Economics fields, they demonstrate a greater propensity for publishing empirical literature. Their analysis does not extend to studying whether the frequencies of topics of the journal comove with the topic frequencies of the editors' own work. [Kosnik \(2015\)](#) uses topical analysis to study the corpus of seven journals in Economics⁴ published between 1960 and 2010. While this study finds suggestive evidence that research in macroeconomics diminishes, complemented by an increase in research in the microfoundations of macroeconomics, it does not concern editors' appointment, and does not compare trends across different journals. [Kosnik \(2018\)](#) asks whether JEL codes are informative, and applies textual analysis to papers that share the same JEL code, but does not study the dynamics of topics in time.

3 Data and Methodology

We study the corpus of texts in the *AER*, *QJE*, *JPE*, *REStud*, and *Econometrica*, and all articles written by *AER*'s editors between 1976 and 2013 which are available at the JStor. We obtain our data from ITHAKA, the owners of JStor, the digital online library, which

⁴The usual Top 5 (as we use in this paper as well) plus Journal of Economic Literature and Journal of Economic Perspectives, both of which are by invitation and therefore have significantly different incentive structure in the author-editor relationship.

provides word and n-gram counts of academic papers for researchers⁵. We compare trends in topic frequencies in articles published by newly appointed editors of the *AER* who took office between 1985 and 2011 against topic frequencies observed in articles published in the *AER* and also those published in the other Top 5.

A topic in our context is not necessarily the same as something considered a field or a subfield in Economics research. A topic can be a field, or an aspect of a field, and it can even be a certain style of narrative that features distinct patterns that is picked up by our textual analysis.

3.1 Topic Analysis

The methodology of the analysis is based on reducing the inherently high dimensionality of textual data. This approach shares some similarities with principal components analysis: words (or combinations of words, such as “sovereign debt”) that occur together with other specific words (such as “default”) in many texts are likely to carry the same narrative purpose.

We preprocess full texts of research articles in our data through several technical steps. In the first step, common words are removed (such as “a”, “above”, “across”, etc; full list of stop words available on request). In the second step, words are stemmed in order to abstract them from their different grammatical forms. The stemming procedure follows the standard approach described by Porter (1980). Finally, common 2-word collocations are replaced by tokens. For the tokenizing, we employ the Python package `textmining` (Peccei, 2010). All of these preprocessing steps were performed using a Python script that is available on request.

After preprocessing the text data, the topic analysis was performed using Latent Dirichlet Allocation (LDA)⁶ model. Each topic is a probability distribution over words that are encountered in the whole text corpus. For each manuscript, LDA returns a list of mixing proportions: each document is a mixture distribution over topics, and therefore over words, and different documents have different topic loadings. An advantage of this methodology is that it is not driven by hand-picked sets of words (“unsupervised”): topics are constructed to fit a model consisting of a mixture of distributions over words, subject to a pre-specified number

⁵Data are provided by ITHAKA for research purposes upon request via <http://dfr.jstor.org/>, accessed 1 June 2017.

⁶See Blei et al. (2003) for elaboration of the LDA machinery.

of topics. Our ex-ante specification is based on 200 topics; results remain qualitatively similar if the number of topics is increased (in which case additional topics become more specific, potentially containing more uninformative artifacts) or decreased (which makes topics more general, potentially concealing changes in time). We used the UMass Amherst’s Machine Learning for Language Toolkit (MALLET) (McCallum, 2002) to carry out the estimation.⁷

3.2 Trends in Topics of the AER

The topic analysis yields the topic frequencies in each article as well as the distribution of words in each topic. The most popular topic overall constitutes around 13% of the corpus; 67 topics cover around 50% of the corpus.

Over time, trends may change: some topics can proliferate, while other topics may wither. To test for time trends in topics, we ran a time series regression for each topic⁸, regressing a log of share of each topic on time and time-squared, with topic-specific coefficients. Then we conducted 200 F-tests to see whether the time trend was statistically significant, and kept the p -value of this test. Under the null hypothesis of no quadratic time trend across topics, the distribution of p -values should be close to uniform. In fact, it is not: the average p -value is somewhat less than 0.152, and 33.5% of topics have a p -value less than 0.01. A similar result is obtained if one attempts a panel regression with individual time trends: the F-test value is 6175.205, which with degrees of freedom of 200×2 and 200×33 yields a numerically zero p -value. Implementing corrections (such as adjusting for non-normality, etc) could obviously increase the p -value.

Among individual topics, topic 102’s linear slope coefficient is 0.0499. This topic includes stems such as

```
sovereign angeleto morri_shin hellwig collater angeleto_pavan fsd lfp
default
```

⁷Available at <https://mallet.cs.umass.edu>, accessed 1 June 2017.

⁸We used a four year window two year lag setting for this; similar results are obtainable for other settings. This allows us to use factor loadings from 1979 till 2014.

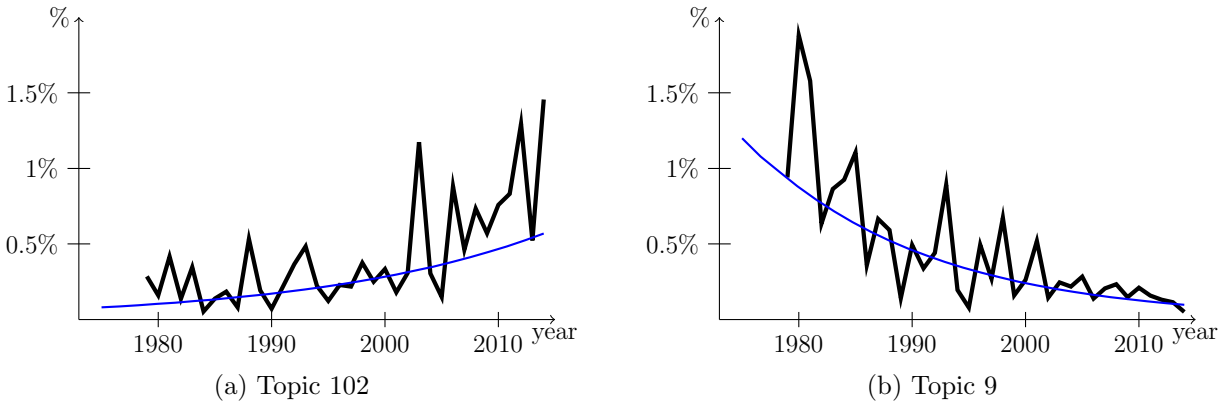


Figure 1: Topics change over time

and its share in *AER* publications increases in time, going from 0.2% of the text corpus in the late 1970s to .9% in the early 2010s. Meanwhile, topic 9’s linear slope coefficient is -0.0643 ; it includes stems such as

keyn keynesian grasp kaldor same upheld ohlin harrod keyn_ian colour
 anim_spirit friedman cagan bronfenbrenn kalecki shackl marshallian hick

and it accounts for 1.12% of the *AER* publications in late 1970s, but only for 0.13% of the text corpus in the late 2010. This does not necessarily mean that authors used the word `same` in 2010s less than they did before, it means that this characteristic accumulation of words tended to be part and parcel of a text more frequently before 2000 than afterwards. Both trends are plotted in Figure 1.

The nature of our topic data induces some of the trends: if there is a strong trend in one topic, there will be an opposite trend in the total loading of other topics, which is why it is hard to say which changes cause which other changes. We apply the Benjamini-Hochberg-Yekutieli algorithm⁹ to choose a critical value to limit our false discovery rate from above by 1%, and still there are 26 topics that seem to exhibit a quadratic trend, and these topics cover about 28% of the corpus (if we just went with 1% significance, that would be 45% of the corpus). Therefore, it is safe to say that over 1979–2014 at least some changes in topics occurred in the papers covered by our corpus. Because our topics are narrower than the

⁹We use the conservative approach that allows for arbitrary dependence across outcomes of our tests, following Theorem 1.3 in Benjamini and Yekutieli (2001).

subfields of Economics, we detect some changes in the narrative that could not be captured by a coarser grouping methodology a lá Angrist et al. (2017).

3.3 Assigning Documents To Editors

We employ the topic frequencies of journals and editors based on three, four, and five year windows before and after an editor’s tenure in our main analysis¹⁰. As already been pointed out by Ellison (2002) there are significant time lags between the crafting of a research paper and its actual publication. To accommodate publication lags, we compare results for one and two year lags. This means that with 3 year window and 1 year lag, the editor appointed in 2000 is relevant for papers published in 2001, 2002, and 2003 (plus maybe additional years, but we deliberately do not include further years to study the effect of the appointment only); and we compare the topic loadings of these papers to topic loadings of papers published in 1998, 1999, and 2000.

The document sets and their notations are as follows: AER , $Top5$, and $Editor_i$ denote the AER , the other Top 5, and a specific editor i , respectively. $AER_{i,pre}^c$ and $AER_{i,post}^c$ denote the average frequency of topic c in articles published in the AER before and during tenure, respectively, of editor i in the AER . Similarly, $Top5_{i,pre}^c$ and $Top5_{i,post}^c$ denote the average frequency of topic c in articles published in the other Top 5 before and after the appointment, respectively, of editor i at the AER . The average frequency of topic c in articles written by editor i before and after her/his appointment at the AER is denoted by $Editor_{i,pre}^c$ and $Editor_{i,post}^c$, respectively. We take logarithms of all variables so that outliers are tamed and regression coefficients can be interpreted as respective elasticities. The difference between topic frequencies of the AER and the other Top 5 during the tenure of editor i is denoted $(AER - Top5)_{i,post}^c$.

3.4 Estimation

The unit of observation in our regression analysis is an editor-topic pair, and there are 4,600 editor-topic pairs when the analysis is run using a three year window. Table 1 shows the

¹⁰A complete list of the AER ’s editors and coeditors covered in our analysis can be found in Table A.1 in the Appendix.

Table 1: Pairwise Correlations of Editors' and Journals' Topics using Three Year Window and One Year Lag

	$Editor_{i,post}^c$	$Editor_{i,pre}^c$	$AER_{i,post}^c$	$AER_{i,pre}^c$	$Top5_{i,post}^c$
$Editor_{i,pre}^c$	0.238***				
$AER_{i,post}^c$	0.101***	0.0973***			
$AER_{i,pre}^c$	0.0823***	0.0845***	0.408***		
$Top5_{i,post}^c$	0.119***	0.101***	0.339***	0.296***	
$Top5_{i,pre}^c$	0.101***	0.0926***	0.306***	0.335***	0.451***

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

correlation coefficients of the six measures we obtain from the textual analysis using a three year window and one year lag.

We use OLS estimations to investigate correlations between editors' and journals' topic frequencies. We regress topic frequencies observed in the *AER* and the other Top 5 during the tenure of an editor on her/his preference for topics and journals' topic frequencies which are observed prior to that editor's tenure. We not only control topic frequencies of the *AER* and the other Top 5 during editor i 's tenure for editor's preferences but we control also for topic frequencies observed in the *AER* and the other Top 5 before editor i 's tenure. Any discrepancy in topic frequencies of the *AER* and the other Top 5 may lead to a realignment in the next period, i.e. during editor i 's tenure, independent of editor i 's personal preferences. In particular we estimate:

$$AER_{i,post}^c = F_A(\mathbf{Editor\ Preference}_i^c, AER_{i,pre}^c, Top5_{i,pre}^c)$$

$$Top5_{i,post}^c = F_T(\mathbf{Editor\ Preference}_i^c, AER_{i,pre}^c, Top5_{i,pre}^c)$$

$$(AER - Top5)_{i,post}^c = H(\mathbf{Editor\ Preference}_i^c, AER_{i,pre}^c, Top5_{i,pre}^c)$$

where $\mathbf{Editor\ Preference}_i^c$ is captured either by editor's topic frequencies prior to taking office or during her/his tenure at the *AER*.

Editors' topic frequencies during their tenure, however, might be influenced by topic frequencies observed in the *AER* or at the other Top 5 during that time. This poses the problem of endogeneity, and we use 2SLS to avoid this problem. That way we are able to

isolate variations in topic frequencies of an editor’s own research during her/his tenure to what can be explained by variations in topic frequencies observed before he/she has taken office at the *AER* either in her/his own research or in journal publications. In particular, we estimate

$$Editor_{i,post}^c = \beta_0 + \beta_1 Editor_{i,pre}^c + \beta_2 AER_{i,pre}^c + \beta_3 Top5_{i,pre}^c + \psi_i^c$$

and we obtain fitted values for editor i ’s topic frequencies during his/her tenure, denoted by $Editor_{i,post}^{c,fitted}$ which we refer to as the fitted topic frequency or the *fitted preference* of editor i . In the second stage, we use editor i ’s fitted preference as an independent variable in the estimation of topic frequencies in the *AER* and in the other Top 5 during editor i ’s tenure.

4 Results

We start with topic frequencies obtained from the textual analysis of a three year window with a two year lag¹¹. The list of editors included in this analysis is restricted to those who have been in office at least for the full length of the window and have sufficient text data for the textual analysis. For the rest of this paper, *post-tenure* refers to the time window (including lag) after the editor took office, and *pre-tenure* refers to that before they took office.

We regress post-tenure topic frequencies (for brevity, referred to as *topics*) observed in the *AER* and the other Top 5 on editor’s and journals’ pre-tenure topics for the same window and lag length. Estimated coefficients shown in Table 2 reveal that post-tenure topics of the *AER* as well as the other Top 5 are significantly and positively correlated with pre-tenure topics of these journals. Pre-tenure topics of editors are positively and significantly related to post-tenure topics of the other Top 5 (column (5)) but there is no significant partial correlation to those of the *AER* (column (2)).

Post-tenure topics of editors positively correlate with post-tenure topics observed in the *AER* and the other Top 5 (columns (3) and (6)). Editors are appointed to lead the way in which the research narrative unfolds in the journal. This is especially important when top journals are concerned. However, it is unclear whether editors lead the way by imposing

¹¹Estimations using a three year window with a one year lag are shown in Table A.2 in the Appendix.

Table 2: Journals' Topics and Editor's Preference with Three Year Window and Two Year Lag

	$Editor_{i,post}^c$ (1)	(2)	$AER_{i,post}^c$ (3)	(4)	(5)	$Top5_{i,post}^c$ (6)	(7)	(8)	$(AER - Top5)_{i,post}^c$ (9)	(10)
$AER_{i,pre}^c$	-0.0463 (0.0557)	0.131*** (0.0174)	0.132*** (0.0174)	0.130*** (0.0174)	0.252*** (0.0201)	0.253*** (0.0201)	0.255*** (0.0202)	-0.121*** (0.0244)	-0.121*** (0.0244)	-0.126*** (0.0244)
$Top5_{i,pre}^c$	0.103* (0.0520)	0.192*** (0.0167)	0.190*** (0.0167)	0.196*** (0.0171)	0.170*** (0.0224)	0.169*** (0.0224)	0.163*** (0.0227)	0.0223 (0.0250)	0.0208 (0.0250)	0.0322 (0.0254)
$Editor_{i,pre}^c$	0.173*** (0.0194)	-0.00513 (0.00430)			0.0115* (0.00536)			-0.0167** (0.00642)		
$Editor_{i,post}^c$			0.0121** (0.00440)			0.0212*** (0.00553)			-0.00913 (0.00655)	
$Editor_{i,post}^{c,fitted}$				-0.0297 (0.0249)			0.0667* (0.0311)			-0.0965*** (0.0372)
Topic.FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600
R^2	0.134	0.452	0.453	0.452	0.426	0.427	0.426	0.308	0.307	0.308
F	30.87	85.73	86.88	85.73	236.6	230.7	236.6	20.23	19.87	20.23

Robust standard errors in parentheses

+ $p < 0.10$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

their own pre-tenure preferences or whether they are affected by submissions or trends set by other major journals during their tenure. This endogeneity problem should actually prevent us from regressing the topics of the *AER* on editors' topics during their tenure. We include editors' post-tenure topics in columns (3), (6), and (9), but we do so solely to inform the reader about existing partial correlations among post-tenure topics of editors and journals without reading too much into it. We stick with fitted values of editors' post-tenure topics for plausible interpretations and insight.

Editors' fitted preferences are fitted values that are obtained from regressing editors' post-tenure topics on editors' and journals' pre-tenure topics. Coefficient estimations from this regression are shown in column (1) of Table 2. Editors' post-tenure topics are positively related to their own pre-tenure topics and to that of the other Top 5, but we find no significant partial correlation between editors' and *AER*'s pre-tenure topics. As can be seen in column (4), we obtain no significant partial correlation between editors' fitted preferences and the *AER*'s post-tenure topics. All of the significant variation that would otherwise have been captured by this variable is sucked away due to direct inclusion of pre-tenure topics of the other Top 5 journals. Interestingly, however, fitted preferences are positively and significantly related to post-tenure topics observed in the other Top 5: a straightforward interpretation of this is that the profession responds to what is happening with the *AER* editorial board.

An alternative interpretation might be that editors are hired to make sure that the *AER* does not diverge too far away from topic trends in the other Top 5 journals. Checking partial correlations between editors' and journals' pre-tenure topics, we find that editors' pre-tenure topics correlate positively and significantly with that of the other Top 5 journals, but pre-tenure topics of the *AER* obtain no statistical significance. Hence it is not only editors' post-tenure topics but also their pre-tenure topics that don't significantly relate to topics of the *AER*. This can be interpreted as an inherent alignment in topic preferences of the *AER*'s editors and the other Top 5. It is probably thanks to this alignment that the *AER* does not miss getting on board for important upcoming topic trends at the right time.

Editors' pre-tenure topics as well as fitted preferences turn out negatively and significantly related to the difference in topic frequencies between the *AER* and the other Top 5, meaning

that the other Top 5 publish more in line with editors' pre- as well as post-tenure topics compared to the *AER*.

Estimations using a four year window and two year lag are shown in Table 3.¹² Although editors' post-tenure topics reveal a positive and significant correlation with post-tenure topics of journals (columns (3) and (6)), neither *AER*'s nor other Top 5's post-tenure topics are significantly related to editors' fitted preferences (columns (4) and (7)). Furthermore, fitted preferences turn out insignificant in explaining the difference in post-tenure topics of the *AER* and the other Top 5 (column (10)). As the window grows from three to four years, editors who served less than four years are dropped, and those editors who remain are apparently those whose topics were among the emerging hot fields before they took office.

When we consider a five year window with a two year lag, then, interestingly, we obtain no statistically significant relation between the *AER*'s pre and post-tenure topics, as shown in columns (2) to (4) in Table 4. The positive and significant relation of the *AER*'s post-tenure topics and the other Top 5's pre-tenure topics still remains. Editors in this subsample are those who served *AER* for at least five years, and during their tenure *AER*'s topics get strongly aligned with topics that have been published in the other Top 5 prior to editors' tenure. Interestingly, columns (5) to (7) document that the other Top 5's post-tenure topics are significantly related to *AER*'s pre-tenure topics as well. This might be a hint for a convergence process that takes place over a five year window: *AER* follows suit with what was favored by the other Top 5 and the post-tenure topics of the other Top 5 converge to pre-tenure topics of the *AER* at the same time.

Another plausible way to view these correlations is: Editors who remain in office for five years might be those who are prominent figures in an emerging field (such as game theory in 1980s or experimental economics in 2000s) so that they divert submissions from the other Top 5 into the *AER* and five years are enough time for a journal to establish clear preferences for favorable topics. Manuscripts which would have had a good chance for the *AER* previously, find their *AER* space being crowded out by the lately popular field and end up in the other Top 5. Of course, one can very well argue that this mechanism can work in

¹²Analysis using a four year window with a one year lag yields very similar results and are shown in Table A.3 in the Appendix.

Table 3: Journals' Topics and Editor's Preference with Four Year Window and Two Year Lag

	$Editor_{i,post}^c$ (1)	(2)	$AER_{i,post}^c$ (3)	(4)	(5)	$Top5_{i,post}^c$ (6)	(7)	(8)	$(AER - Top5)_{i,post}^c$ (9)	(10)
$AER_{i,pre}^c$	-0.0598 (0.0817)	0.0578* (0.0253)	0.0586* (0.0253)	0.0543* (0.0254)	0.292*** (0.0304)	0.294*** (0.0305)	0.286*** (0.0308)	-0.234*** (0.0353)	-0.235*** (0.0353)	-0.232*** (0.0357)
$Top5_{i,pre}^c$	0.0900 (0.0767)	0.279*** (0.0253)	0.276*** (0.0253)	0.284*** (0.0259)	0.0712* (0.0318)	0.0655* (0.0317)	0.0804* (0.0325)	0.208*** (0.0354)	0.210*** (0.0353)	0.204*** (0.0365)
$Editor_{i,pre}^c$	0.108*** (0.0235)	-0.00648 (0.00543)			-0.0110 (0.00697)			0.00456 (0.00817)		
$Editor_{i,post}^c$			0.0137* (0.00552)			0.0291*** (0.00698)			-0.0154+ (0.00836)	
$Editor_{i,post}^{c,fitted}$				-0.0598 (0.0501)			-0.102 (0.0643)			0.0420 (0.0754)
Topic.FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800
R^2	0.133	0.518	0.519	0.518	0.488	0.491	0.488	0.381	0.381	0.381
F	21.02	54.82	55.02	54.82	119.9	125.3	119.9	13.91	14.00	13.91

Robust standard errors in parentheses

+ $p < 0.10$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Table 4: Journals' Topics and Editor's Preference with Five Year Window and Two Year Lag

	$Editor_{i,post}^c$ (1)	$AER_{i,post}^c$ (2)	$AER_{i,post}^c$ (3)	$AER_{i,post}^c$ (4)	$Top5_{i,post}^c$ (5)	$Top5_{i,post}^c$ (6)	$Top5_{i,post}^c$ (7)	$(AER - Top5)_{i,post}^c$ (8)	$(AER - Top5)_{i,post}^c$ (10)
$AER_{i,pre}^c$	0.0707 (0.102)	0.0389 (0.0299)	0.0374 (0.0299)	0.0406 (0.0300)	0.319*** (0.0343)	0.318*** (0.0344)	0.322*** (0.0344)	-0.280*** (0.0398)	-0.281*** (0.0398)
$Top5_{i,pre}^c$	0.120 (0.0942)	0.263*** (0.0284)	0.260*** (0.0283)	0.266*** (0.0289)	0.0833* (0.0352)	0.0802* (0.0351)	0.0880* (0.0357)	0.180*** (0.0410)	0.178*** (0.0415)
$Editor_{i,pre}^c$	0.171*** (0.0272)	-0.00417 (0.00611)			-0.00668 (0.00854)			0.00252 (0.00949)	
$Editor_{i,post}^c$			0.0188*** (0.00547)			0.0205** (0.00738)		-0.00179 (0.00831)	
$Editor_{i,post}^{c,fitted}$				-0.0243 (0.0357)			-0.0391 (0.0499)		0.0147 (0.0555)
Topic.FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	2400	2400	2400	2400	2400	2400	2400	2400	2400
R^2	0.160	0.513	0.515	0.513	0.467	0.469	0.467	0.368	0.368
F	15.41	203.2	195.0	203.2	201.4	193.0	201.4	12.42	12.42

Robust standard errors in parentheses

+ $p < 0.10$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

the other direction as well, that is, the other Top 5 successfully embarking on an emerging field and the *AER* getting those manuscripts that are crowded out at the other Top 5. The truth may actually be between these two extreme scenarios: There are probably several hot and potentially promising emerging fields at a given time and some of them establish their hub at the *AER* and some in the other Top 5. Analysis using a five year window with a one year lag yields similar results, as can be seen in Table A.4 in the Appendix.

5 Conclusion

We use textual analysis to quantify the topic frequency in the narrative of publications in the *AER* and ask if and how they align with the content of editors' individual publication portfolios. We find that topic frequencies that are observed in the *AER* align with those observed in editors' own publications while being an editor, but not much driven by editor's publications before becoming an editor. The size of the effect is quite small, amounting to a replacement of 1–3 *regular* papers in 100 by a paper that is devoted only to the newly appointed editor's interests. Obviously, this could also mean that the papers submitted to the *AER* now have on average 1%–3% more irrelevant verbiage targeted at the new editor. This looks large; this is because most editors' work is not too far from what was getting published in the *AER* before their appointment, so 1-3% is the estimate of the appointment effect from above. However, for the natural reason of the secrecy covering author-editor relationships, we know neither the editors who were handling individual papers nor what was rejected by the very same editors. While the effect of the latter is unclear, the effect of the former clearly will make our coefficients biased towards zero. Our topic assignment is data-driven, not coming from a training dataset or heuristics, though either could have provided us with a better measure of topic dynamics; again, however, this would have biased the coefficients that we obtain towards zero. Heterogeneity in editors—some editors may be more prone to impose their own agenda, and some may be less—will add noise to our estimates, making our coefficients look statistically less significant, but will not alter the sign of the average effect.

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Appendices

A A Model of Unbiased Change in Topics

To illustrate the driving forces behind our finding, we design a simple model of editor choice. Assume there are two topics, indexed by $i \in \{1, 2\}$. Assume each paper can be either good (quality $q = 1$) or bad ($q = 0$), and the paper is good with probability π_i . Assume that at every period the representative editor obtains measure m_i of papers of topic i without knowing their true quality, and then for every paper with quality q of type i the refereeing process (an interaction of editor’s specialties, editor’s networks, and the profession’s supply of refereeing labour) provides a signal $q + \varepsilon$, where ε is distributed with the cdf $F_i(x)$.

Assume now the editor picks papers based upon the threshold rule: if the signal is above \bar{q} , the paper is accepted, and the paper is rejected otherwise. This leads to the share of papers of topic 1 in the journal to be equal to

$$\frac{m_1 [(1 - \pi_1)F(\bar{q}) + \pi_1F(\bar{q} - 1)]}{m_1 [(1 - \pi_1)F(\bar{q}) + \pi_1F(\bar{q} - 1)] + m_2 [(1 - \pi_2)F(\bar{q}) + \pi_2F(\bar{q} - 1)]}.$$

If there is a change in the proportion of topics published by the journal, does it have to be driven by the editor’s leniency? No: it can be driven by the editor’s specialization.

Result 1 *If the distribution of ϵ_i is uniform with support $[-b_i, b_i]$, $b_i > 1$, and $\bar{q} \in (0, 1)$, a marginal increase in b_i increases the proportion of published papers of topic i if $\pi_i < \bar{q}$, and increases otherwise.*

Proof. The probability that a paper of topic i of quality q will get published is

$$P(q + \varepsilon_i > \bar{q}) = \frac{b_i - (\bar{q} - q)}{2b_i},$$

which leads to the calculation that the proportion of papers of topic i getting published is then

$$(1 - \pi_i) \overbrace{\frac{b_i - (\bar{q} - 0)}{2b_i}}^{\text{bad paper is published}} + \pi_i \overbrace{\frac{b_i - (\bar{q} - 1)}{2b_i}}^{\text{good paper is published}} = \frac{1}{2} + \frac{\pi_i - \bar{q}}{2b_i}.$$

Taking a derivative with respect to b_i , which is $-(\pi_i - \bar{q})/2b_i^2$, observe that it is negative when $\pi_i > \bar{q}$, and positive otherwise. The increase in the mass of papers of topic i getting accepted will lead to an increased proportion of papers of topic i in the journal. ■

This can be extended to a general setting, with general distributions, adjusting for the editor's choice of \bar{q} , having multiple thresholds \bar{q}_i (for either the reason of bias, or a tradeoff between Type I and Type II errors, or both), introducing an endogenous decision of the topic choice or effort choice by the authors, having competing journals, etc. The purpose of this model is to illustrate that even under the simplest assumptions, a change in the refereeing process (an increase in one b_i and a decrease in another) can lead to a change in the composition of accepted papers, even if the editor applies the same acceptance rule to all papers.

B Additional Documentation and Analysis

Table A.1: List of Editors and Coeditors of the *AER* covered in our Analysis

Name	starting	ending	included when using a Window of		
			Three Years	Four Years	Five Years
<i>Editors : (1985 – 2011)</i>					
Orley Ashenfelter	1985	2001	✓	✓	✓
Ben S. Bernanke	2001	2004	✓	✗	✗
Robert A. Moffitt	2004	2010	✓	✓	✓
<i>Coeditors : (1985 – 2011)</i>					
John B. Taylor	1985	1988	✓	✗	✗
Robert H. Haveman	1985	1991	✓	✓	✓
Hal R. Varian	1987	1989	✗	✗	✗
Bennett T. McCallum	1988	1991	✓	✗	✗
Paul R. Milgrom	1990	1993	✓	✗	✗
John Y. Campbell	1991	1993	✗	✗	✗
Roger H. Gordon	1991	1994	✓	✗	✗
Kenneth D. West	1993	1996	*	✗	✗
R. Preston McAfee	1993	2002	✓	✓	✓
Dennis N. Epple	1994	1999	*	*	*
Matthew D. Shapiro	1997	1999	✗	✗	✗
Valerie A. Ramey	1999	2002	*	✗	✗
Timothy J. Besley	1999	2004	✓	✓	✓
David Card	2002	2004	✗	✗	✗
B. Douglas Bernheim	2002	2005	✓	✗	✗
Richard Rogerson	2003	2008	✓	✓	✓
Judith A. Chevalier	2004	2007	✓	✗	✗
Jeremy I. Bulow	2005	2008	✓	✗	✗
Vincent P. Crawford	2005	2009	✓	✓	✗
Mark Gertler	2005	2010	✓	✓	✓
Pinelopi K. Goldberg**	2006	2010	✓	✓	✓
Alessandro Lizzeri	2008	2011	✗	✗	✗
Joel Sobel	2009	2010	✗	✗	✗
Dirk Krueger	2009	2011	✗	✗	✗
Larry Samuelson	2010	2016	✓	✓	✓
Martin Eichenbaum	2011	2014	✓	✓	✗
Andrzej Skrzypacz	2011	2014	✓	✗	✗
Marianne Bertrand	2011	2017	✓	✓	✓
Hilary Hoynes	2011	2017	✓	✓	✓
Luigi Pistaferri	2011	2017	✓	✓	✓

Note: P. Goldberg and O. Ashenfelter have served as editor as well as coeditor. They enter our analysis only once at the starting date of either editorship or coeditorship whichever comes first. Since M. Eichenbaum served for more than 36 months he is included in the four year window.

(*)Editors who did not publish articles that meet our selection criteria for the duration of a window are not included in the analysis of that window.

(**)Since P. Goldberg continued as editor until 2016, she is included in the five year window as well.

Table A.2: Journals' Topics and Editor's Preference with Three Year Window and One Year Lag

	$Editor_{i,post}^c$ (1)	(2)	$AER_{i,post}^c$ (3)	(4)	(5)	$Top5_{i,post}^c$ (6)	(7)	(8)	$(AER - Top5)_{i,post}^c$ (9)	(10)
$AER_{i,pre}^c$	-0.00928 (0.0544)	0.0757*** (0.0169)	0.0759*** (0.0169)	0.0759*** (0.0169)	0.206*** (0.0189)	0.207*** (0.0189)	0.207*** (0.0189)	-0.131*** (0.0224)	-0.131*** (0.0224)	-0.131*** (0.0224)
$Top5_{i,pre}^c$	0.0570 (0.0540)	0.158*** (0.0163)	0.158*** (0.0163)	0.156*** (0.0164)	0.131*** (0.0186)	0.131*** (0.0186)	0.128*** (0.0187)	0.0264 (0.0226)	0.0268 (0.0226)	0.0278 (0.0227)
$Editor_{i,pre}^c$	0.170*** (0.0187)	0.00457 (0.00424)			0.00885* (0.00435)			-0.00428 (0.00537)		
$Editor_{i,post}^c$			0.00529 (0.00458)			0.0155** (0.00476)			-0.0102+ (0.00597)	
$Editor_{i,post}^{c,fitted}$				0.0268 (0.0249)			0.0519* (0.0255)			-0.0251 (0.0315)
Topic.FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600
R^2	0.155	0.429	0.429	0.429	0.449	0.450	0.449	0.322	0.322	0.322
F	10.33	207.4	213.5	207.4	625.3	673.8	625.3	17.97	17.83	17.97

Robust standard errors in parentheses

+ $p < 0.10$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Table A.3: Journals' Topics and Editor's Preference with Four Year Window and One Year Lag

	$Editor_{i,post}^c$ (1)	(2)	$AER_{i,post}^c$ (3)	(4)	(5)	$Top5_{i,post}^c$ (6)	(7)	(8)	$(AER - Top5)_{i,post}^c$ (9)	(10)
$AER_{i,pre}^c$	-0.0985 (0.0878)	0.0564* (0.0254)	0.0568* (0.0255)	0.0515* (0.0260)	0.236*** (0.0255)	0.237*** (0.0256)	0.234*** (0.0262)	-0.179*** (0.0308)	-0.181*** (0.0309)	-0.182*** (0.0314)
$Top5_{i,pre}^c$	0.0454 (0.0790)	0.192*** (0.0222)	0.192*** (0.0222)	0.195*** (0.0224)	0.104*** (0.0255)	0.103*** (0.0255)	0.105*** (0.0257)	0.0881** (0.0290)	0.0884** (0.0291)	0.0893** (0.0292)
$Editor_{i,pre}^c$	0.0893*** (0.0250)	-0.00449 (0.00533)			-0.00211 (0.00531)			-0.00238 (0.00656)		
$Editor_{i,post}^c$			0.00630 (0.00506)			0.0166** (0.00510)			-0.0103 (0.00669)	
$Editor_{i,post}^{c,fitted}$				-0.0503 (0.0597)			-0.0236 (0.0595)			-0.0267 (0.0735)
Topic.FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800
R^2	0.139	0.509	0.509	0.509	0.551	0.553	0.551	0.400	0.400	0.400
F	16.12	108.5	111.6	108.5	287.6	324.4	287.6	15.51	15.69	15.51

Robust standard errors in parentheses

+ $p < 0.10$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Table A.4: Journals' Topics and Editor's Preference with Five Year Window and One Year Lag

	$Editor_{i,post}^c$ (1)	(2)	$AER_{i,post}^c$ (3)	(4)	(5)	$Top5_{i,post}^c$ (6)	(7)	(8)	$(AER - Top5)_{i,post}^c$ (9)	(10)
$AER_{i,pre}^c$	0.124 (0.0966)	0.00310 (0.0300)	0.000905 (0.0299)	0.000351 (0.0302)	0.302*** (0.0298)	0.301*** (0.0298)	0.302*** (0.0300)	-0.299*** (0.0356)	-0.300*** (0.0355)	-0.302*** (0.0357)
$Top5_{i,pre}^c$	0.00883 (0.0899)	0.221*** (0.0238)	0.221*** (0.0237)	0.221*** (0.0238)	0.0208 (0.0274)	0.0207 (0.0274)	0.0208 (0.0274)	0.200*** (0.0338)	0.200*** (0.0338)	0.200*** (0.0338)
$Editor_{i,pre}^c$	0.182*** (0.0259)	0.00402 (0.00529)			-0.000239 (0.00605)			0.00426 (0.00729)		
$Editor_{i,post}^c$			0.0174*** (0.00512)			0.00667 (0.00580)			0.0107 (0.00705)	
$Editor_{i,post}^{c,fitted}$				0.0221 (0.0291)			-0.00131 (0.0333)			0.0235 (0.0402)
Topic.FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
R^2	0.184	0.516	0.518	0.516	0.540	0.540	0.540	0.419	0.420	0.419
F	24.36	69.31	71.61	69.31	326.2	336.9	326.2	14.98	14.90	14.98

Robust standard errors in parentheses
+ $p < 0.10$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$