Reverse Engineering Chinese Censorship

Gary King, Jennifer Pan, Molly Roberts

Institute for Quantitative Social Science Harvard University

(talk at MIT Operations Research Center, 11/21/2013)

Papers

An Observational Study:

How Censorship in China Allows Government Criticism but Silences Collective Expression (American Political Science Review, May 2013)

Experimental and Participatory Studies:

A Randomized Experimental Study of Censorship in China

Copies at GaryKing.org

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- located in government and inside social media firms

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Either or both could be right or wrong.

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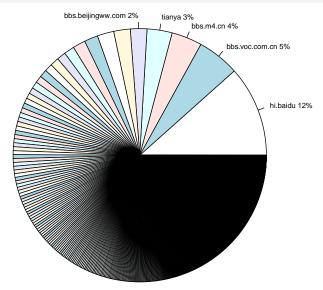
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(They also censor 2 other smaller categories we'll talk about)

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(Plus 59% from Sina Blog)

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 - Use computer-assisted methods of text analysis (some existing, some new, all adapted to Chinese)

Censorship is not Ambiguous: Example Error Page



Censorship is not Ambiguous: BBS Error Page



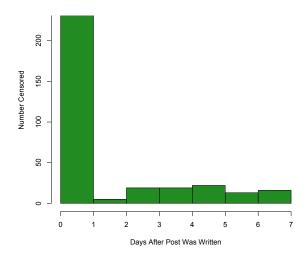
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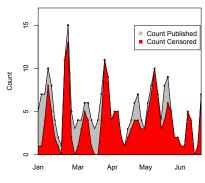
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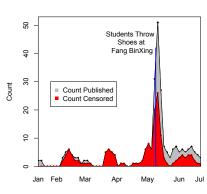


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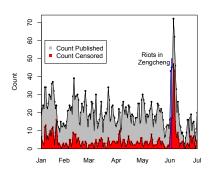
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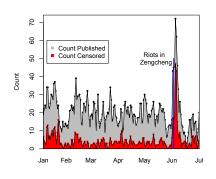


Criticism of the Censors

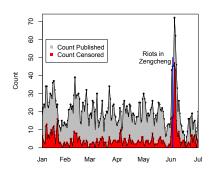
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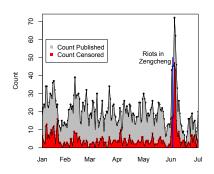




• Unit of analysis:

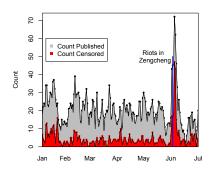


- Unit of analysis:
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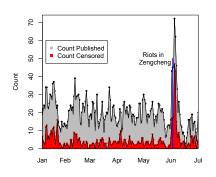


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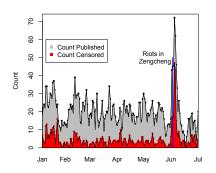
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- (≈ 3 SDs greater than baseline volume)



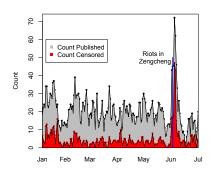
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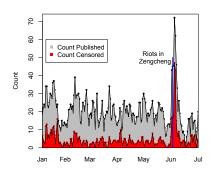
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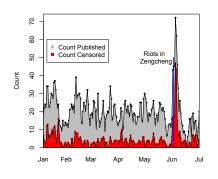
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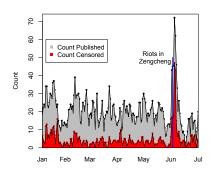
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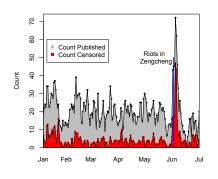
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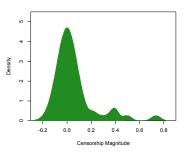
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Event classification (each category can be +, -, or neutral comments about the state)

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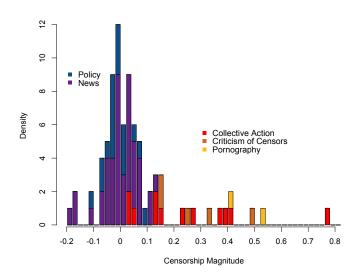
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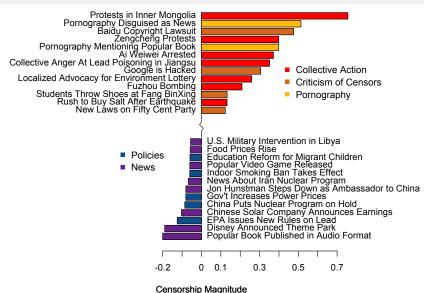
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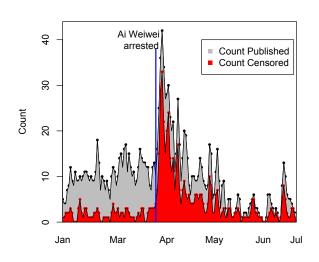
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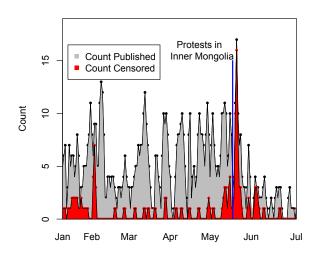
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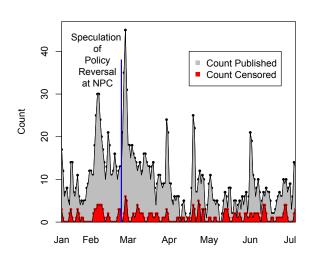
Censoring Collective Action: Ai Weiwei's Arrest



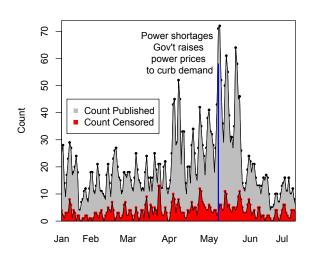
Censoring Collective Action: Protests in Inner Mongolia



Low Censorship on One Child Policy



Low Censorship on News: Power Prices



We adapted "ReadMe" (Hopkins-King) methodology to the content of censored posts in Chinese

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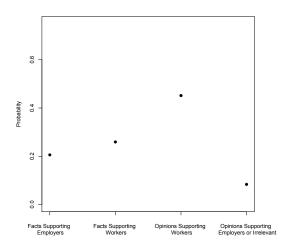
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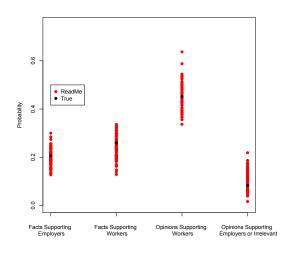
$$P(\textit{Censored} | \textit{Category}) = \frac{P(\textit{Category} | \textit{Censored})P(\textit{Censored})}{P(\textit{Category})}$$

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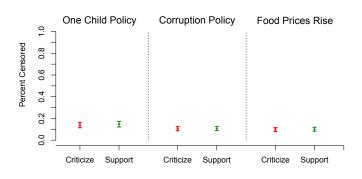


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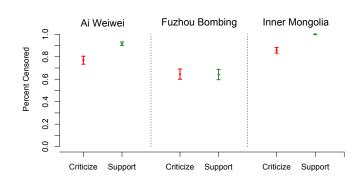
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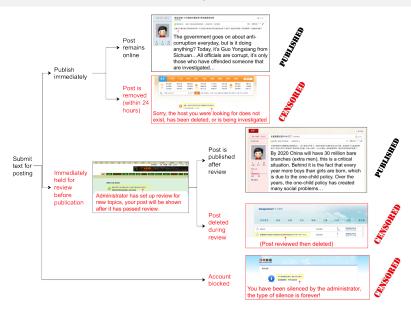
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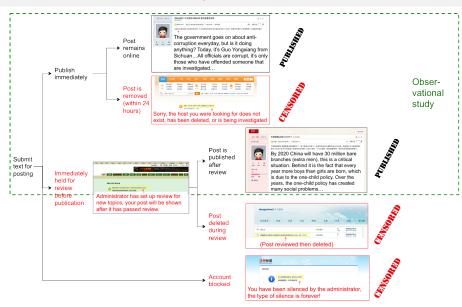
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 - To learn: we tried every software option, read the documentation, and called customer support(!)

Mechanisms of Censorship

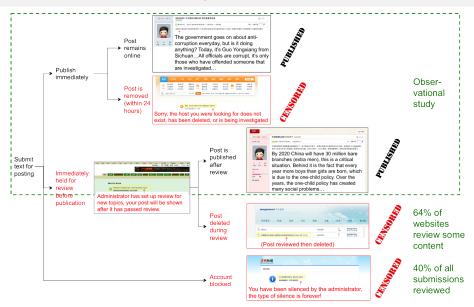
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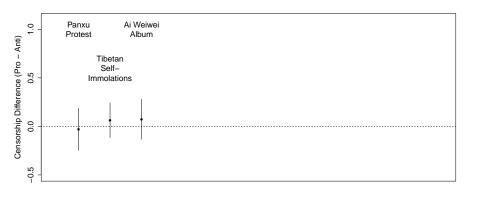


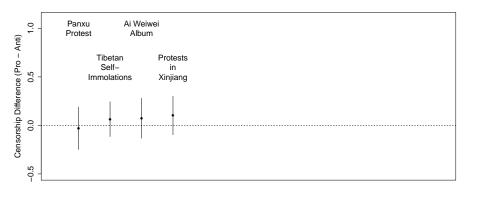


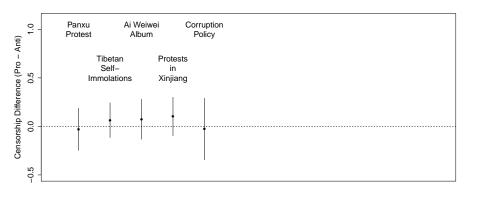


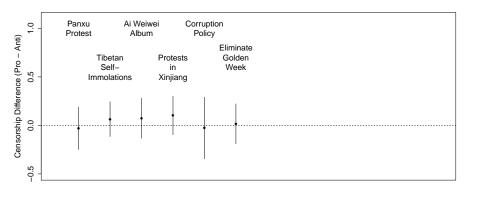


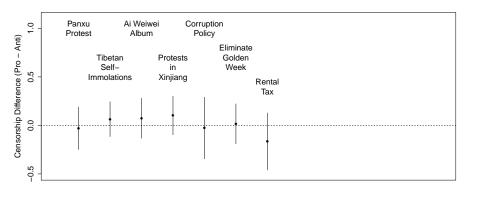


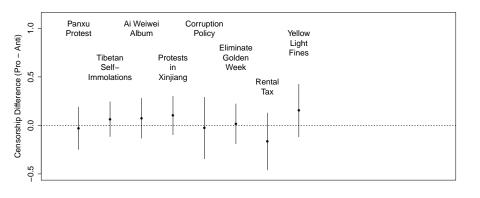


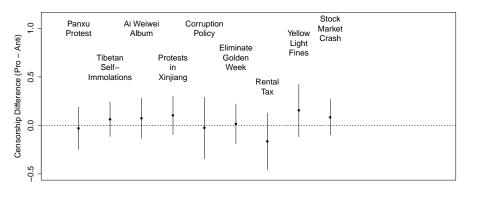


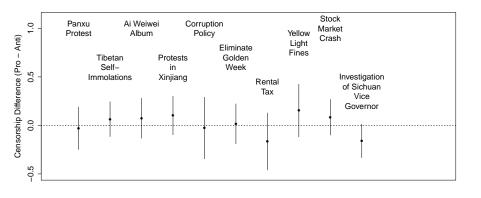


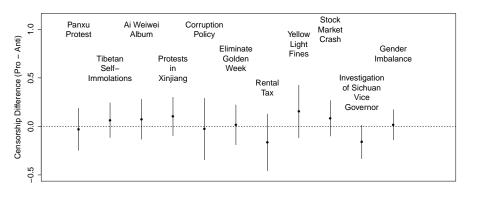


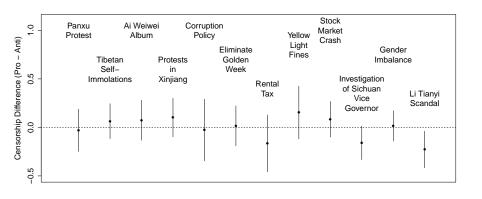


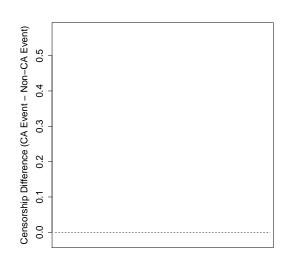


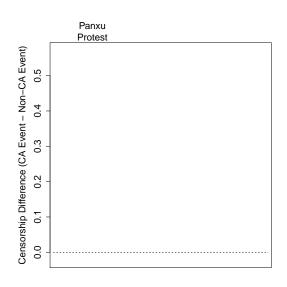


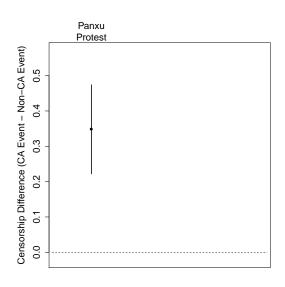


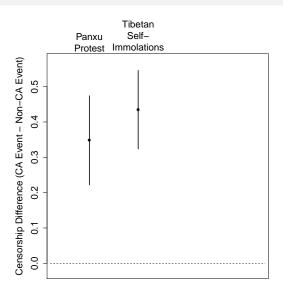


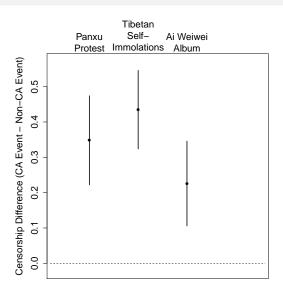


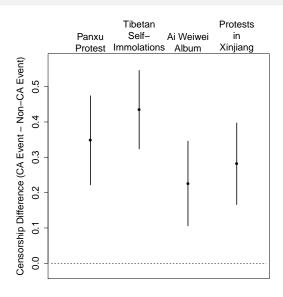


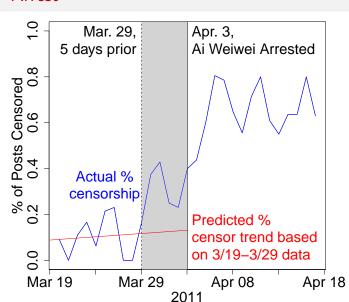


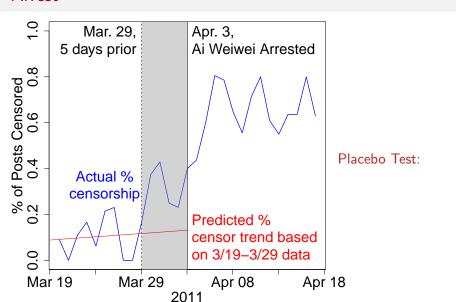


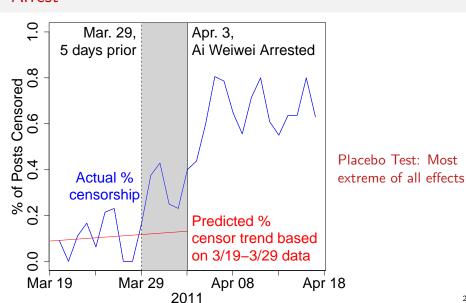












• Chinese people's speech: Individually Free, Collectively in Chains

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 - Possibly applicable to other countries

For more information

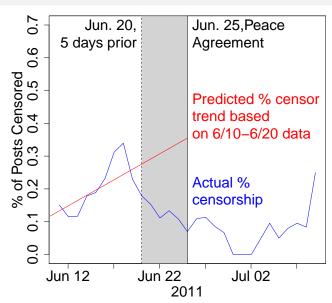


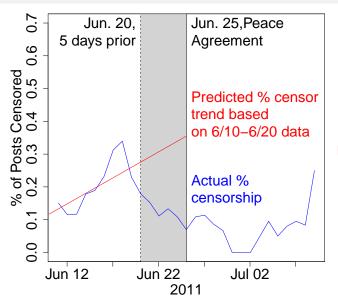
 ${\sf GaryKing.org}$

 $\mathsf{j.mp}/\mathsf{JenPan}$

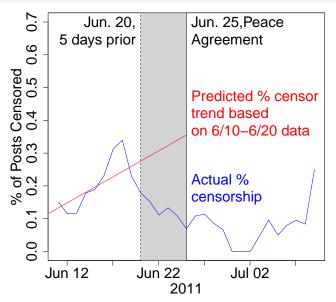
j.mp/MollyRoberts

Appendix

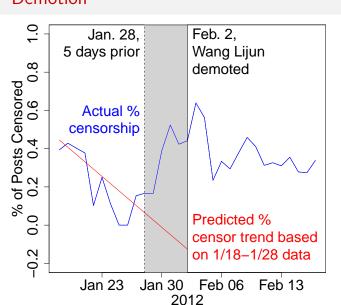


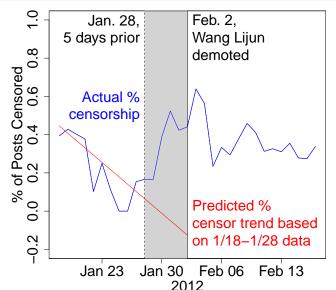


Placebo Test:

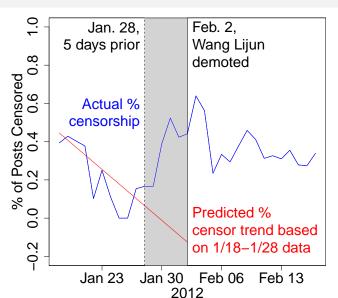


Placebo Test: Most extreme of all effects





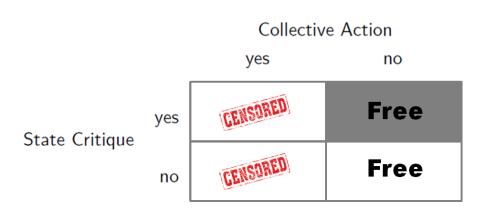
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Uncensored Posts (w/o Collective Action Potential) Critical of the State

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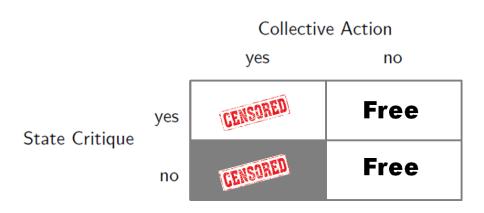
Uncensored Posts (w/o Collective Action Potential) Critical of the State

This is a city government [Yulin City, Shaanxi] that treats life with contempt, this is government officials run amuck, a city government without justice, a city government that delights in that which is vulgar, a place where officials all have mistresses, a city government that is shameless with greed, a government that trades dignity for power, a government without humanity, a government that has no limits on immorality, a government that goes back on its word, a government that treats kindness with ingratitude, a government that cares nothing for posterity...

这是一个漠视生命的市政府[陕西省榆林市]、一个官员横行的市政府、一个没有公正的市政府,一个低级趣味的市政府,一个包二奶的市政府,一个为钱不要脸的市政府,一个为个权不要人格的市政府,一个没有血性的市政府,一个没有道德低线的市政府,一个出尔反尔的市政府,一个忘恩负义的市政府,一个不要子孙后代的市政府,一个什么怪事都出的市政府,一个什么的市政府,只要你想到的就有…

Censored Post (with Collective Action Potential) Supporting the State

Censored Post (with Collective Action Potential) Supporting the State



Censored Post (with Collective Action Potential) Supporting the State

The bombing led not only to the tragedy of his death but the death of many government workers. Even if we can verify what Qian Mingqi said on Weibo that the building demolition caused a great deal of personal damage, we should still condemn his extreme act of retribution.... The government has continually put forth measures and laws to protect the interests of citizens in building demolition. And the media has called attention to the plight of those experiencing housing demolition. The rate at which compensation for housing demolition has increased exceeds inflation. In many places, this compensation can change the fate of an entire family.

爆炸案造成他本人和多名政府工作人员死伤的悲剧,即使钱明奇在微博里所称拆迁造成的个人损失是属实的,我们也应谴责他的极端报复行为...政府在连续出台保护被拆迁者利益的政策法规,媒体也在为公平对待被拆迁者大声疾呼,各地拆迁补偿款的上升速度,大多高于商品房售价上升速度,在不少地方,补偿款已经足以改变一个家庭的命运。