How Censorship in China Allows Government Criticism but Silences Collective Expression

Gary King, Jennifer Pan, Molly Roberts

Institute for Quantitative Social Science Harvard University

(talk at Emory University, 10/12/2012)

Chinese Censorship

Gary King, Jennifer Pan, & Molly Roberts

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• The largest selective suppression of human expression in history

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 - Internet police: 20,000-50,000

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- (They also censor: pornography & criticism of the censors)

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Our Data Source

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Our Data Source

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KNOW MORE. KNOW WHY. KNOW HOW.

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Chinese Censorship

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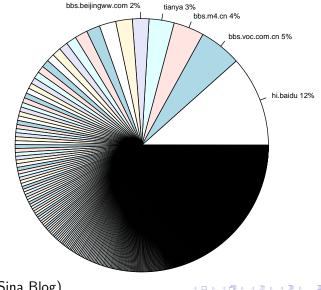
Chinese Social Media: Fractured over 1,400+ sites



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Chinese Censorship

Chinese Social Media: Fractured over 1,400+ sites



(Plus 59% from Sina Blog)

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Chinese Censorship

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 - Use computer-assisted methods of text analysis

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Censorship is not Ambiguous: BBS Error Page

设为首页 收藏本站				切换到宽敞	
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Censorship is not Ambiguous: BBS Error Page



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The Censors are Fast; Our Automated Methods are Faster

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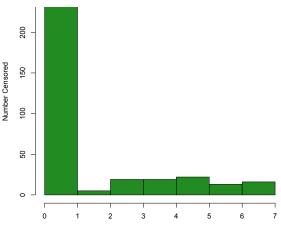
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The Censors are Fast; Our Automated Methods are Faster Example: Shanghai Subway Crash

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Days After Post Was Written

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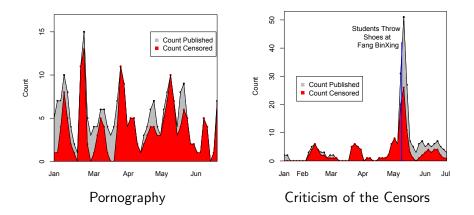
For Rare Topics, Censorship Effort Appears Constant

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For Rare Topics, Censorship Effort Appears Constant



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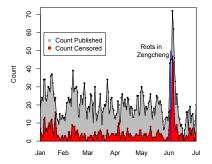
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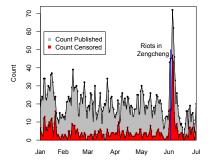
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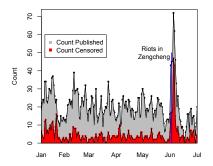


• Unit of analysis:

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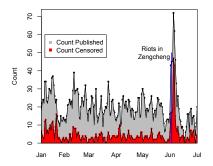
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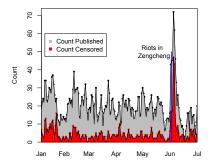
- Unit of analysis:
 - volume burst

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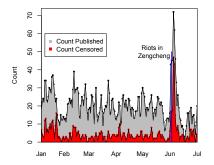
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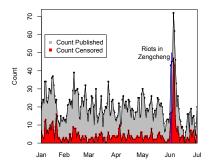
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- We monitored 85 topic areas (Jan–July 2011)
- Found 87 volume bursts in total
- Identified real world events associated with each burst

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Theories. The Purpose of Censorship is to:

Stop criticism of the state

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Either or both could be right or wrong.

Theories. The Purpose of Censorship is to:

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- Stop collective action Right

Either or both could be right or wrong.

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Monitor many broad topic areas

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- ② Detect volume bursts; identify associated real world events

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Our Evidence

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Post volume

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Post volume

Nature of the event generating each volume burst

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- Post volume
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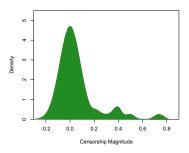
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Event classification (each of which could be negative, positive, or neutral comments about the state)

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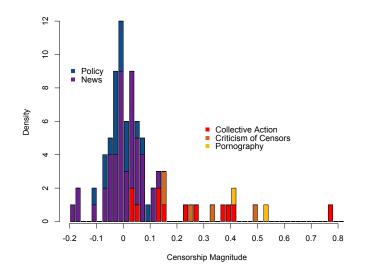
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What Types of Events Are Censored?



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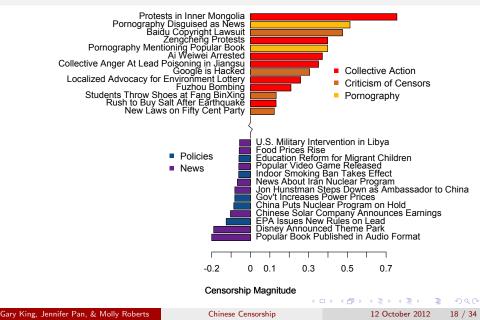
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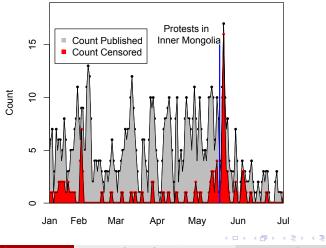
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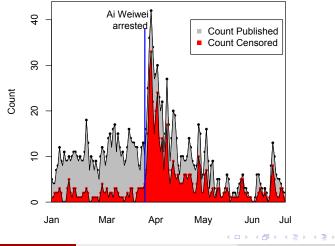
Censoring Collective Action: Protests in Inner Mongolia



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Censoring Collective Action: Ai Weiwei's Arrest

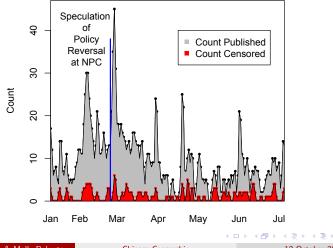


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Low Censorship on One Child Policy

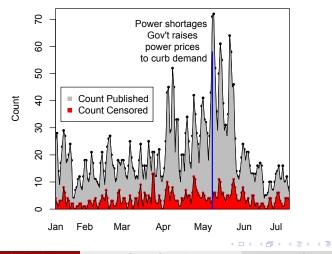


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Low Censorship on News: Power Prices



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

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• Standardize encoding of Chinese text

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 - ReadMe estimates: % of posts in each category
 - Quantity of interest: % of posts censored in a category

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

- Standardize encoding of Chinese text
- Eliminate punctuation and stop words
- Experiment with segmenting characters into words
- Calculate new the quantity of interest (% censored by category)
 - Code a validation set
 - ReadMe estimates: % of posts in each category
 - Quantity of interest: % of posts censored in a category

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

"ReadMe" Algorithm Validated in Chinese

Gary King, Jennifer Pan, & Molly Roberts

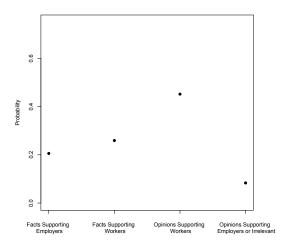
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"ReadMe" Algorithm Validated in Chinese Example: Labor Strikes, 2010 (Training set: 100; Test set: 900)

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"ReadMe" Algorithm Validated in Chinese Example: Labor Strikes, 2010 (Training set: 100; Test set: 900)



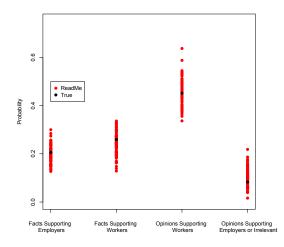
Gary King, Jennifer Pan, & Molly Roberts

Chinese Censorship

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"ReadMe" Algorithm Validated in Chinese Example: Labor Strikes, 2010 (Training set: 100; Test set: 900)



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Test 3: Content of Censored and Uncensored Posts

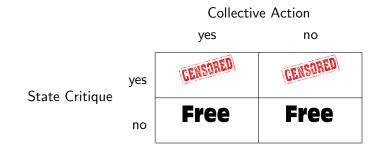
Gary King, Jennifer Pan, & Molly Roberts

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Test 3: Content of Censored and Uncensored Posts Predictions from Two Theories of Censorship

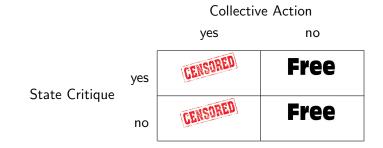
Predictions of State Criticism Theory



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Test 3: Content of Censored and Uncensored Posts Predictions from Two Theories of Censorship

Predictions of Collective Action Theory



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With Collective Action, Posts that Support *or* Oppose the State are Censored

Gary King, Jennifer Pan, & Molly Roberts

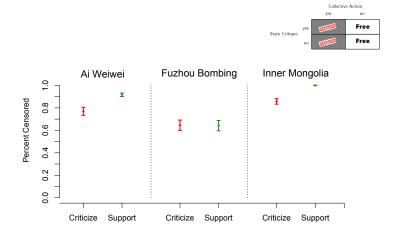
Chinese Censorship

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With Collective Action, Posts that Support *or* Oppose the State are Censored



Gary King, Jennifer Pan, & Molly Roberts

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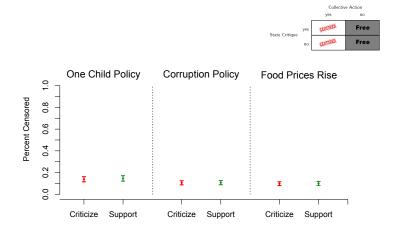
Without Collective Action, Posts that Support *or* Oppose the State are NOT Censored

Gary King, Jennifer Pan, & Molly Roberts

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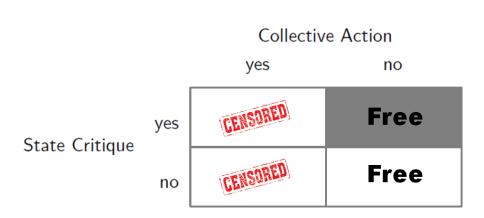
Without Collective Action, Posts that Support *or* Oppose the State are NOT Censored



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

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



Gary King, Jennifer Pan, & Molly Roberts

Chinese Censorship

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

This is a city government [Yulin City, Shaanxil 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…

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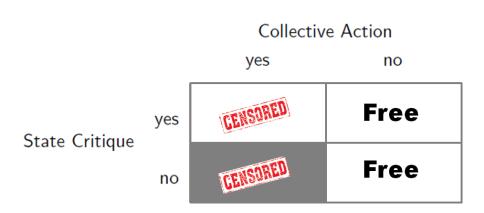
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Censored Post (with Collective Action Potential) Supporting the State

Gary King, Jennifer Pan, & Molly Roberts

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Censored Post (with Collective Action Potential) Supporting the State



Gary King, Jennifer Pan, & Molly Roberts

Chinese Censorship

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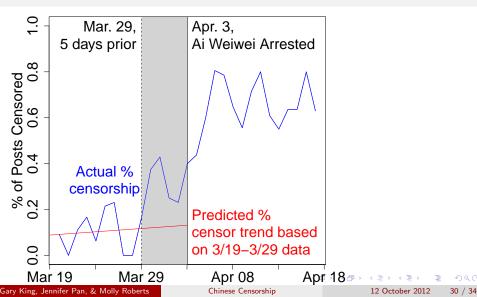
Censored Post (with Collective Action Potential) Supporting the State

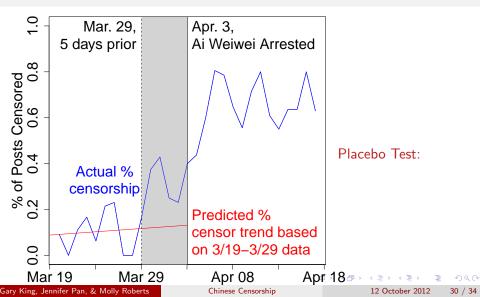
The bombing led not only to the tragedy of his death but the death of many government workers. Even if we can verify what Qian Mingqi said on Weibo that the building demolition caused a great deal of personal damage, we should still condemn his extreme act of retribution.... The government has continually 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.

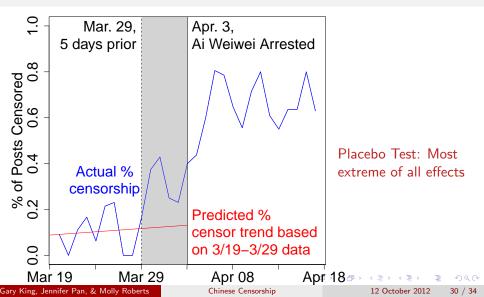
爆炸案造成他本人和多名政府工作人 员死伤的悲剧,即使钱明奇在微博里 所称拆迁造成的个人损失是属实的, 我们也应谴责他的极端报复行为.... 政府在连续出台保护被拆迁者利益的 政策法规,媒体也在为公平对待被拆 迁者大声疾呼,各地拆迁补偿款的上 升速度,大多高于商品房售价上升的 速度,在不少地方,补偿款已经足以 改变一个家庭的命运。

Gary King, Jennifer Pan, & Molly Roberts

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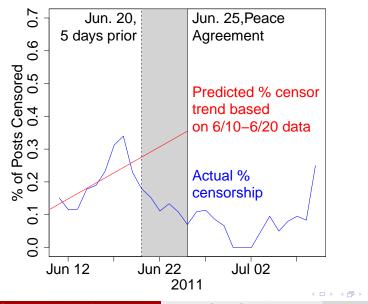




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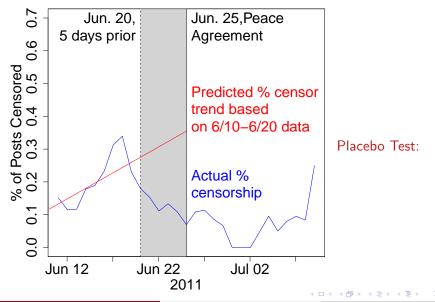
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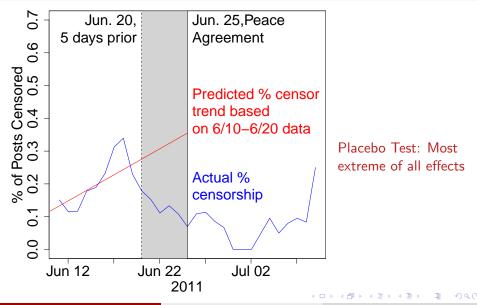
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Chinese Censorship

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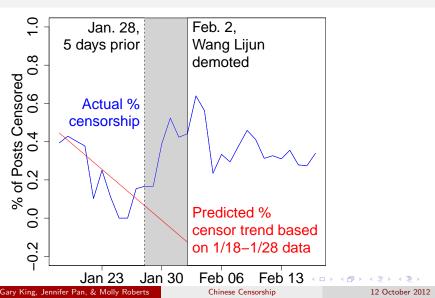
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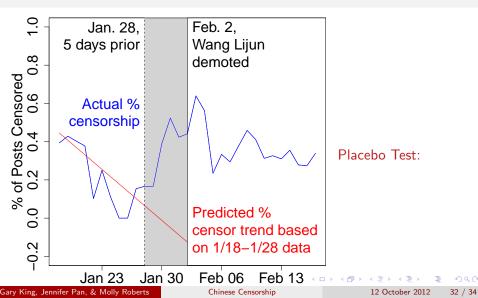
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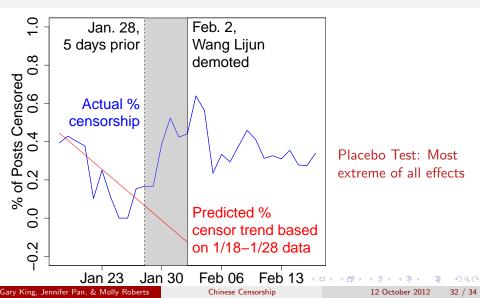
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Chinese Censorship



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• The Chinese Censorship Program:

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- The Chinese Censorship Program:
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 - Enables continuous time measurement of Chinese government censorship activities
 - Reveals information about state action when traditional media is silent
 - Might be applicable to other countries

For more information



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