

Mobilizing Identities

Experiments in India and Afghanistan on Religious Practice and Political Behavior

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November 13, 2012 (23:48)

Ethnic Divisions

- Ethnic identities are often thought to be mobilized when it is in the interests of people to emphasize them (e.g., Posner 2005)
- Ethnic cleavages may arise because of
 - social realities ready to be politically mobilized
 - mobilization of interests that happen to be related to ethnicity
- An ethnic group may be mobilized in different ways:
 - some by direct appeals to the group's identity
e.g., blacks in U.S.; Jatav sub-caste in UP
 - others by other more indirect appeals
e.g., women in U.S.; larger caste groups (OBC) in UP
- Measures of ethnic fractionalization are not sensitive to these differences (e.g., Fearon 2003, Posner 2004)

Mobilizing Identities: Religion

- Examine the role of religion in India and Afghanistan
Big cleavage in both countries
- Islam in South Asia is more formally structured than Hinduism
- Hindu priests have a very circumscribed role
- Mosques and temples play different political roles

Experiments

Use experiments to determine how/when identities can be mobilized

Experiments in different settings:

- In different **states**:
 - Tamil Nadu: communal divisions are not politicized
 - Karnataka: communal divisions are beginning to be politicized
 - Uttar Pradesh: communal divisions are highly politicized
 - Herat, Afghanistan: intense Sunni–Shiite tensions
- In different **settings** in the same state:
 - Outside of temples/mosques
 - Random surveys
 - Get-Out-The-Vote mobilization experiments

Mobilizing Religious Identities

Can Hindus and Muslims be mobilized by direct appeals to their identities? Does it vary by political context?

- Do co-religious leaders evoke greater confidence?
 - Outside of temples/mosques
 - Random surveys
- Do mosques play a different role than temples?
 - Outside of temples/mosques
- Can religious symbols politically mobilize supporters?
 - Get-Out-The-Vote mobilization experiments

Representation and Confidence Experiments, India

- Hindus **do not** have greater confidence in leaders using religious symbols
- Muslims **do** have greater confidence in leaders using religious symbols
- These Sunni/Hindu differences are present across states:
 - Tamil Nadu: communal divisions are not politicized
 - Karnataka: communal divisions are beginning to be politicized
 - Uttar Pradesh: communal divisions are highly politicized

Get-Out-the-Vote (GOTV) Experiments

For Hindus, GOTV results vary by electoral interests:

- Hindus **can be** mobilized using religious symbols, but only in states where it is in their electoral interest

Muslims **can be** mobilized using religious symbols, even where they do not have an electoral interest to highlight their identity:

- Tamil Nadu: communal divisions are not politicized
 - Muslims: **are** mobilized by direct appeals
 - Hindus: **are not** mobilized by direct appeals
- Karnataka: communal divisions are beginning to be politicized
 - Muslims: **are** mobilized by direct appeals
 - Hindus: **are** mobilized by direct appeals
- Uttar Pradesh: communal divisions are highly politicized
 - Hindus and Muslims are both mobilized



Simple Experiment, India

At a recent meeting celebrating India's democracy this leading politician (show photo) said:

“Politicians like me from different political parties try hard to represent the interests of the people who support us and vote for us.”

Do you have confidence [*Vishwas*] in what this person is saying?
[yes,no,dk]

Example Photos: Tamil Nadu



Confidence in Uttar Pradesh

	Muslim	Hindu
Estimate	10.8%	2.3%
p-value	0.00	0.39

Confidence in Uttar Pradesh

	Muslim	Hindu
urban Aligarh		
Estimate	15.1%	3.79%
p-value	0.00	0.39
rural Kanpur		
Estimate	12.6%	-1.20%
p-value	0.01	0.79

Tamil Nadu

	Muslim	Hindu
Estimate	12.1%	-5.09%
p-value	0.01	0.23

Karnataka

	Muslim	Hindu
Estimate	7.19%	-20.7%
p-value	0.26	0.00

Less Ambiguous Prompts

At a recent meeting celebrating India's democracy this [Muslim, Hindu] political leader said (show photo)

At a recent meeting celebrating India's democracy this [Muslim, Hindu] political leader whose religious beliefs are the same as yours said (show photo)

Even larger estimate:

	Muslim	Hindu
Estimate	18.1%	2.31%
p-value	0.00	0.57

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Representative Sample Uttar Pradesh

	Muslims	Hindus
Estimate	6.60%	1.86%
p-value	0.01	0.44

Get-Out-The-Vote (GOTV) Experiment

Two GOTV experiments:

- Tamil Nadu: 2011 legislative assembly election
- Karnataka: 2009 general election for the 15th Lok Sabha

With three arms:

- **control**: no contact prior to the election
- **religious symbols**: receive GOTV appeal with religious picture
- **no religious symbols**: receive GOTV appeal with secular picture

GOTV Leader Appeal

This learned person [religious scholar] has written a book. The book says that **Politics affects whether the government looks after the interests of people like you and the interests of your community. He urged everyone to VOTE!**

He wrote that if you as a citizen want to have your input in making politics and government work for your community, you need to VOTE in order to send a message to those in power. Your interests and the interests of your community will not be attended to if you do not VOTE.

GOTV Tamil Nadu: Turnout

Effects relative to control

	Religious Symbols	No Religious Symbols
Hindus	-2.26%	-5.54%
	0.03	0.00
Muslims	2.58%	-5.71%
	0.03	0.00

GOTV Karnataka: Hindu Vote Proportions

	Religious	Not Religious	Control
Bharatiya Janata Party	0.44	0.32	0.36
Janata Dal–S	0.22	0.42	0.27
Congress	0.28	0.22	0.29

GOTV Karnataka: Muslim Vote Proportions

	Religious	Not Religious	Control
Bharatiya Janata Party	0.20	0.18	0.21
Janata Dal–S	0.18	0.03	0.26
Congress	0.59	0.70	0.44

Observational Data: Mosques and Temples

	Muslims	Hindus
Heard of Godhra train burning	24.6%	11.1%
Government is responsible for Gujarat riots	13.6%	2.2%

source: NES 2004



Imams and Elections in Afghanistan

- A qualitative study of 54 villages and 104 Mosques in and around Herat, Afghanistan
- Observing and recording campaign-related activities, particularly the role of imams
- Attending prayers and taking note of sermons
- Sunnite and Shiite imams play different roles in elections

Sunni and Shiite Imams and Elections

Consistent with the Literature:

- Sunni imams often participate in electoral campaigns but rarely (in 15% of mosques) endorse candidates; they instead talk about important qualities of Muslim politicians according to Islamic criteria
- Shiite imams very proactive in elections and tried to lead the campaigns within the Shiite community

Agents Playing Different Roles

- Of 13 Sunni candidates who won, only one looks secular (with no beard)
- Of 4 Shiite candidates who won, only one is religious and has ties with the Shiite clergy; the other 3 are secular and in opposition with the clergy

Simple Confidence Experiment, Herat

Suppose that the man on the picture is a MP and says:

“MPs like me try hard to represent the people who have voted for them.”

Do you have confidence in him? [yes,no,dk]

Figure: Example Photos: Herat, Afghanistan



Results for Confidence in Herat, Afghanistan

	Religious vs. Secular	Western vs. Secular
Sunni		
Estimate	19.6%	-12.4%
p-value	0.00	0.13
Shiite		
Estimate	2.40%	-2.72%
p-value	0.81	0.76

Conclusion

- We used experiments to:
 - estimate the effect of religious cues on confidence and voting
 - test theories of when and how an ethnic identity can be cued
- Conduct experiments at different points along the causal chain
 - Outside of temples/mosques
 - Random surveys
 - get-out-the-vote mobilization experiments

Conclusion

- Theories such as Posner's (2005) work well for Hindus in India
- For Muslims, however, voters can be cued even it is not in their electoral interests
- Temples play a different role than Mosques
- Planning experiments in other Muslim majority countries: Bangladesh
- No caste interactions
- Our design can be used to study other identity groups: ethnicities, castes, gender, etc.

Manipulation and Reductionism

- A good Mantra: “No causation without manipulation”
- Dispense with the common Dogma of reductionism
- Classic Example:
 - **Incoherent:** “What is the causal effect of being white on income/grades/happiness?”
 - But this does not imply that race does not play a role in generating these outcomes
- Reductionism, each scientific concept has:
 - its own separate estimate
 - its own separate empirical content

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What's the Problem?

- Some want to weaken the Mantra of “No causation without manipulation” in order to theorize about race, gender, religion
- Others justify estimating causal mediation effects because they are needed to test theories—e.g., natural direct effect, pure/total direct effect.
- Assumptions needed to estimate natural mediation effects are usually implausible.
- Good work on the many possible assumptions need to identify the mediation effect—e.g., Robins and Greenland (1992); Pearl (2001); Robins (2003); Petersen, Sinisi, van der Laan (2006); Imai, Keele, Tingley (2010), . . .

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Keep the Mantra; Drop the Dogma

- The central issue is key parts of a scientific theory may not touch data in the way reductionism suggests.
- The Mantra should be kept: we need to be clear about what we are estimating.
- But our theories can have quantities that are not manipulatable, even in theory.
- We make progress the way science always has: finding cases where the theories make different predictions, falsification, triangulate, etc.

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What is Reductionism?

- **Extreme Reductionism:** every scientific sentence has a full translation in sense-datum
- **Moderate Reductionism:** each scientific sentence has its own separate empirical content
- **Moderate Holism:** a scientific sentence need not imply empirical consequences by itself. A bigger cluster is usually needed.
- Classic Example: Copernican vs. Ptolemaic system. Better example: *Āryabhaṭa* (500CE)—diurnal motion of the earth, elliptic orbits calculated relative to the sun, correct explanation of lunar and solar eclipses, but still geocentric.

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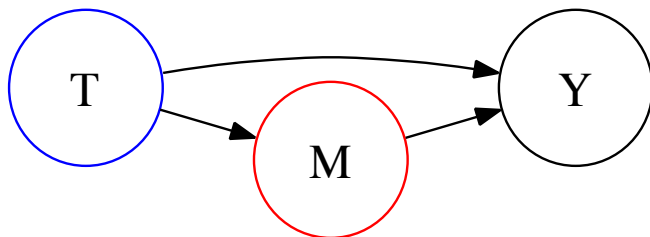
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Philosophy of science is about as useful to scientists as ornithology is to birds.

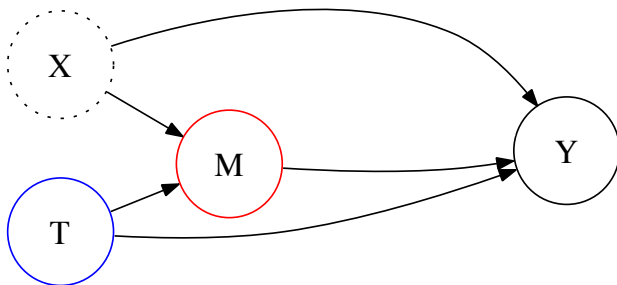
—Richard Feynman

Simple Graph



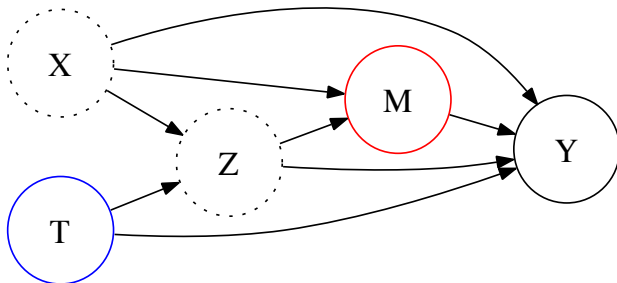
T is a treatment, **M** is a mediator, Y is an outcome

Graph with Pre-Treatment Variables



X are possibly unobserved pre-treatment variables

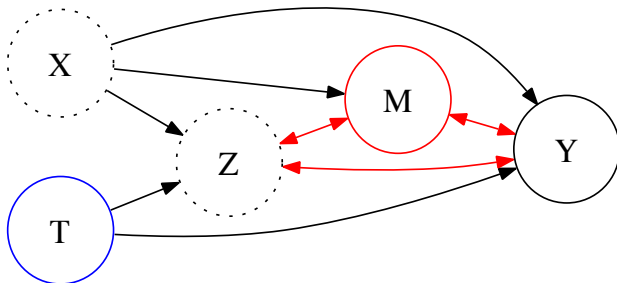
Graph with Other Moderators



X are possibly unobserved pre-treatment variables

Z are possibly unobserved post-treatment variables

We Still Have Simplifications



X are possibly unobserved pre-treatment variables

Z are possibly unobserved post-treatment variables

Some Notation

- Binary treatment: $T_i \in \{0, 1\}$
- Mediator: $M_i \in \mathcal{M}$
- Outcome: $Y_i \in \mathcal{Y}$
- Pre-treatment covariates: $X_i \in \mathcal{X}$
- Post-treatment covariates: $Z_i \in \mathcal{Z}$
- Potential outcomes (standard case): Y_{i1}, Y_{i0} ,
 $Y_i = Y_{i1}T + Y_{i0}(1 - T)$
- Potential mediators: $M_i(t)$ where $M_i = M_i(T_i)$
- Potential outcomes: $Y_i(t, m)$ where $Y_i = Y(T_i, M_i(T_i))$

Defining Causal Mediation Effects

- Total Causal Effect:

$$\tau_i \equiv Y_i(1, M_i(1)) - Y_i(0, M_i(0))$$

- Natural Indirect Effect:

$$\delta_i(t) \equiv Y_i(t, M_i(1)) - Y_i(t, M_i(0))$$

Causal effect of the change in M_i on Y_i that *would be* induced by treatment while holding treatment constant

- Controlled Effect of the Mediator:

$$\text{controlled} \equiv Y_i(t, m) - Y_i(t, m')$$

$$m \neq m'$$

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Defining Direct Effects

- Direct effects:

$$\zeta_i(t) \equiv Y_i(1, M_i(t)) - Y_i(0, M_i(t))$$

- Causal effect of T_i on Y_i holding mediator constant at its potential value that would be induced when $T_i = t$: the **natural direct effect** (Pearl 2001) or the **pure/total direct effect** (Robins and Greenland 1992).
- Total effect equals mediation (indirect) effect + direct effect:

$$\tau_i = \delta_i(t) + \zeta_i(1 - t) = \frac{1}{2} \{ \delta_i(0) + \delta_i(1) + \zeta_i(0) + \zeta_i(1) \}$$

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Identification of Average Causal Mediation Effect

- Average Causal Mediation Effect (ACME):

$$\bar{\delta}(t) \equiv \mathbb{E}(\delta_i(t)) = \mathbb{E} \{ Y_i(t, M_i(1)) - Y_i(t, M_i(0)) \}$$

- Issue: we can never observe $Y_i(t, M_i(1 - t))$
- One assumption, Sequential Ignorability (e.g., Imai et al. 2010):

$$\{ Y_i(t', m), M_i(t) \} \perp\!\!\!\perp T_i \mid X_i = x \quad (1)$$

$$Y_i(t', m) \perp\!\!\!\perp M_i(t) \mid T_i = t, X_i = x, \quad (2)$$

for $t, t' = 0, 1$; $0 < \Pr(T_i = t \mid X_i = x)$ and

$0 < p(M_i = m \mid T_i = t, X_i = x), \forall x \in X$ and $m \in M$

Identification of Average Causal Mediation Effect

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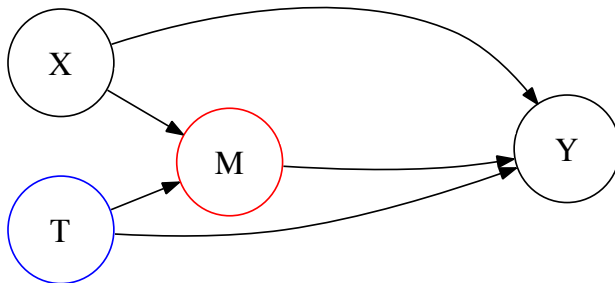
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Sequential Ignorability Graph



Pearl's (2001) Version of Sequential Ignorability

In order to identify $\bar{\delta}(t^*)$:

$$Y_i(t, m) \perp\!\!\!\perp M_i(t^*) \mid X_i = x, \quad (3)$$

$$p(Y(t, m) \mid X_i = x) \quad \text{and} \quad (4)$$

$$p(M_i(t^*) \mid X_i = x) \quad \text{are identifiable,}$$

for all $t = 0, 1$.

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Other Post-Treatment Variables

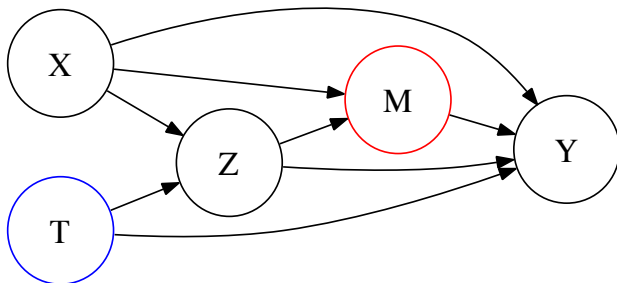
$$\begin{aligned} \{Y_i(t', m), M_i(t)\} &\perp\!\!\!\perp T_i \mid X_i = x \\ Y_i(t, m) &\perp\!\!\!\perp M_i(t) \mid T_i = t, Z_i = z, X_i = x \end{aligned} \quad (5)$$

Equation 5 is not sufficient to identify ACME without further assumptions. Robins' (2003) “no-interaction” assumption:

$$Y_i(1, m) - Y_i(0, m) = B_i,$$

where B_i is a random variable independent of m

Post-Treatment DAG



Nonparametric Bounds and Sensitivity Tests

- We derive sharp nonparametric bounds for ACME when the assumed assumptions do not hold
- The nonparametric bounds are uninformative when the assumptions are weakened
- We also derive **nonparametric** sensitivity tests to allow for partial weakening

Nonparametric Bounds

- Assume randomization of T :

$$\{Y_i(t', m), M_i(t)\} \perp\!\!\!\perp T_i$$

- For Sequential Ignorability do not assume (2):

$$Y_i(t', m) \perp\!\!\!\perp M_i(t) \mid T_i = t, X_i = x$$

- For Robins (2003), no longer assume:

$$Y_i(1, m) - Y_i(0, m) = B_i,$$

but still assume:

$$Y_i(t, m) \perp\!\!\!\perp M_i(t) \mid T_i = t, Z_i = z, X_i = x$$

Nonparametric Bounds

In the case of binary M , Y :

$$\max \begin{Bmatrix} -P_{001} - P_{011} \\ -P_{000} - P_{001} - P_{100} \\ -P_{011} - P_{010} - P_{110} \end{Bmatrix} \leq \bar{\delta}(1) \leq \min \begin{Bmatrix} P_{101} + P_{111} \\ P_{000} + P_{100} + P_{101} \\ P_{010} + P_{110} + P_{111} \end{Bmatrix}$$

where $P_{ymt} \equiv \Pr(Y_i = y, M_i = m \mid T_i = t), \forall y, m, t \in 0, 1$

the bounds will always include zero

Sensitivity Tests

- The identification assumptions ensure that within each treatment group the mediator is assigned independent of potential outcomes:

$$\frac{\Pr(Y_i(t, m) \mid M_i = 1, T_i = t')}{\Pr(Y_i(t, m) \mid M_i = 0, T_i = t')} = 1$$

$\forall t, m$

- Sensitivity test: calculate sharp bounds for a fix deviation from this ratio