Sir! I'd Rather Go to School Sir!

Mahdi Majbouri

Babson College

Mahdi Majbouri Sir! I'd rather go to school, Sir!

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Introduction

Mahdi Majbouri Sir! I'd rather go to school, Sir!

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- Data

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- Data
- Empirical Evidence

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- Introduction
- Data
- Empirical Evidence
- Conclusion

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Introduction

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Mahdi Majbouri Sir! I'd rather go to school, Sir!

• Would the fear of conscription in Iran entice the youth to get more education despite their will?

• Many governments in developing countries face threats to their stability.

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- Many governments in developing countries face threats to their stability.
- Compulsory military service (CMS) is a cheap way to recruit for developing countries.

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- Compulsory military service (CMS) is a cheap way to recruit for developing countries.
- The many consequences of the CMS on human capital, labor markets, and productivity is important for policy.

CMS around the world

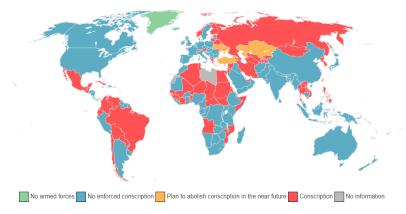


Figure: Military Service Law around the world

source: Wikipedia, "Conscription" entry.

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• Card, David, and Thomas Lemieux (2001). "Going to College to Avoid the Draft: The Unintended Legacy of the Vietnam War." *AEA Papers and Proceedings*, pp 97:102.

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- Card, David, and Thomas Lemieux (2001). "Going to College to Avoid the Draft: The Unintended Legacy of the Vietnam War." *AEA Papers and Proceedings*, pp 97:102.
- Compare cohorts of men who were at risk of draft with same cohorts of women

- Card, David, and Thomas Lemieux (2001). "Going to College to Avoid the Draft: The Unintended Legacy of the Vietnam War." *AEA Papers and Proceedings*, pp 97:102.
- Compare cohorts of men who were at risk of draft with same cohorts of women
- "... find a strong correlation between the risk of induction faced by a cohort and the relative enrollment and completed education of men."

• Every male who is 18 years old has to participate in the compulsory military service for about 21 months (18 is the age of eligibility).

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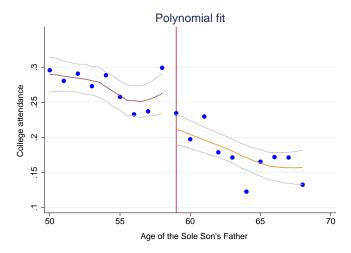
- Every male who is 18 years old has to participate in the compulsory military service for about 21 months (18 is the age of eligibility).
- But students can be temporarily exempted from the service until they leave school. They become eligible after leaving school.

- Every male who is 18 years old has to participate in the compulsory military service for about 21 months (18 is the age of eligibility).
- But students can be temporarily exempted from the service until they leave school. They become eligible after leaving school.
- Sole sons whose fathers are 59 years old and above when they become eligible for military service can get full exemption from military service.

Preview of the Results

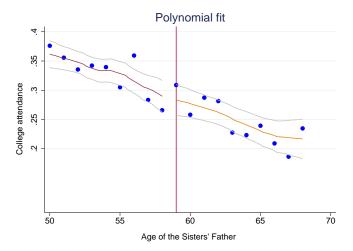
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Note: The horizontal axis is the father's age when the sole son was 18.

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Note: The horizontal axis is the father's age when the sister of sole sons' sister was 18.

• There is a discontinuity in education levels of sole sons at father's age of 59.

- There is a discontinuity in education levels of sole sons at father's age of 59.
- Sole sons whose father's age was below the threshold have about 5 to 7 percentage points more chance of getting a college or above education, than those whose fathers' age was above it.

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- Sole sons whose father's age was below the threshold have about 5 to 7 percentage points more chance of getting a college or above education, than those whose fathers' age was above it.
- The results are subject to measurement error.

II Data

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• A series of annual household income and expenditure surveys from 1992 to 2010.

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- They were primarily collected to measure inflation (contain detailed expenditure but also demographics and income of household members living with the household.)

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- They were primarily collected to measure inflation (contain detailed expenditure but also demographics and income of household members living with the household.)
- Each annual survey has about 20,000 to 30,000 households (more than a million observations total).
- The rural areas are over-sampled.

• Identifying sole sons: only members who are living with the household are recorded. So measurement error.

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- Identifying sole sons: only members who are living with the household are recorded. So measurement error.
- But this is a problem on both sides of the threshold.

• Still selected, even if we identify sole sons correctly. Because they are sole sons who are still living with parents. True, but on both sides of the threshold.

- Still selected, even if we identify sole sons correctly. Because they are sole sons who are still living with parents. True, but on both sides of the threshold.
- To mitigate these problems, took those whose age is between 18 and 24.

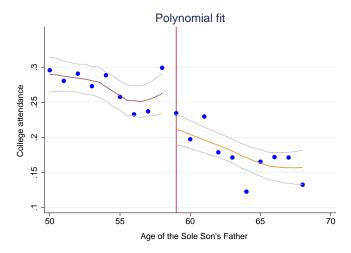
III Evidence

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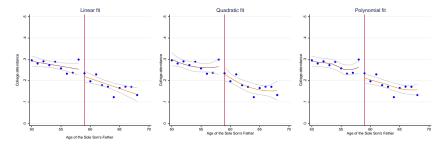
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Note: The horizontal axis is the father's age when the sole son was 18.

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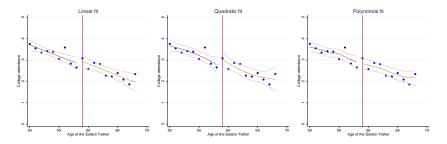
Figure: College Attendance Rate of Sole Sons



Note: The horizontal axis is the father's age when the sole son was 18.

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Figure: College Attendance Rate of Sole Sons' Sisters



Note: The horizontal axis is the father's age when the sole sons' sister was 18.

Sole Sons	Mean	Std. Dev.	Min.	Max.	Ν
Father's age at 18*	58.2	5.3	50	68	13212
Age	21.0	2.0	18	24	13212
Urban	0.5	0.5	0	1	13212
College attendance	0.15	0.36	0	1	13207
Sole Sons' Sisters					
Father's age at 18*	57.3	5.2	50	68	14388
Age	20.4	1.9	18	24	14388
Urban	0.5	0.5	0	1	14388
College attendance	0.19	0.39	0	1	14387

Table: Summary Statistics

Note: Father's age at 18 is the age of father of an individual when he/she was 18. Age is the age of the individual at the time of survey. Urban is a dummy equal to one if the individual lives in an urban area and zero otherwise. College attendance is a dummy variable equal to one if the individual attended college or higher levels of education and zero otherwise.

	All	Urban Areas		
	(1)	(2)	(3)	(4)
D	0.036** (0.017)	0.046* (0.027)	0.051 (0.043)	0 136** (0 069)
Polynomial order	1st	1st	2 nd	3rd
R ² N	0.01 9540	0.01 4598	0.01 4598	0.01 4598

Table: Discontinuity in Education for Sole Sons

Note: Sample only includes sole sons whose father's age when they were 18 was between 50 and 68. D is a dummy equal to one if a sole son's father's age is less than 59 when the son was 18 years old and zero otherwise. Robust-heteroskedastic standard errors clustered at the county-survey year are in parentheses.

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* p < 0.10, ** p < 0.05, *** p < 0.01

	All	Urban Areas		
	(1)	(2)	(3)	(4)
D	0.014 (0.015)	-0.027 (0.028)	-0.053 (0.045)	-0.079 (0.068)
Polynomial order	1st	1st	2 nd	3 rd
R ² N	0.01 10774	0.01 5058	0.01 5058	0.01 5058

Table: Discontinuity in Education for Sole Sons' Sisters

Note: Sample only includes sole sons' sisters whose father's age when they were 18 was between 50 and 68. D is a dummy equal to one if a sole son's father's age is less than 59 when the son's sister was 18 years old and zero otherwise. Robust-heteroskedastic standard errors clustered at the county-survey year are in parentheses.

* p < 0.10, ** p < 0.05, *** p < 0.01

$$Y_{i} = \alpha + \beta D_{i} + \sum_{k=1}^{l} \gamma_{k} (p_{i} - 59)^{k} + \sum_{k=1}^{l} \delta_{k} D_{i} (p_{i} - 59)^{k} + S_{i} \{\alpha_{s} + \tau D_{i} + \sum_{k=1}^{l} \gamma_{ks} (p_{i} - 59)^{k} + \sum_{k=1}^{l} \delta_{ks} D_{i} (p_{i} - 59)^{k} \} + u_{i},$$

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	(1)	(2)	(3)
D imes S	0.073*	0.104*	0 216**
	(0.039)	(0.063)	(0 093)
Polynomial Order	1st	2nd	3rd
R²	0.02	0.02	0.02
N	9656	9656	9656

Table: Discontinuity in College Attendance of Sole Sons in Urban Areas

Note: Regressions are based on Equation (1). Coefficient of $D \times S$ shows the Local Average Treatment Effect from a Diff-in-Disc regression. Robust-heteroskedastic standard errors are in parentheses.

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* p<0.10, ** p<0.05, *** p<0.01

IV Conclusion

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• There is a discontinuity in education levels of sole sons at father's age of 59.

- There is a discontinuity in education levels of sole sons at father's age of 59.
- Sole sons whose father's age was below the threshold have about 5 to 7 percentage points more chance of getting a college or above education, than those whose fathers' age was above it.

• Using DHS datasets of developing countries to answer the research question.

Thank you!

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