Polygyny, Inequality, and Social Unrest

Plural marriage, bred of inequality, begets violence

The Economist, Dec 19, 2017 Introduction

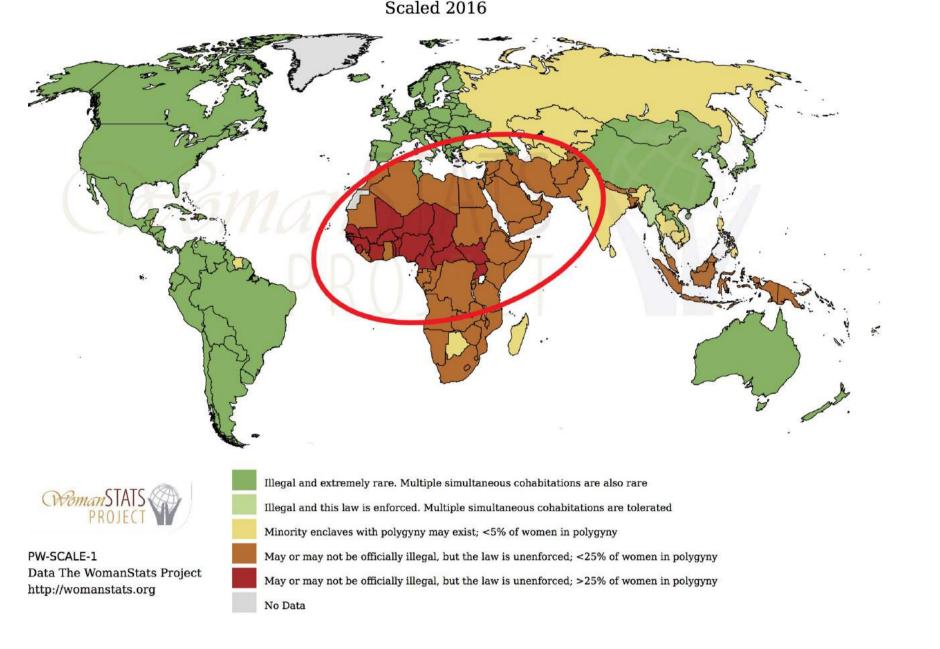
Polygyny may be associated with different kinds of inequality...

- Vertical inequality
- Horizontal inequality
- Gender inequality

Related literature: Polygyny \Rightarrow inequality (obstructions) on the marriage market \Rightarrow conflict/violence

(e.g., Henrich et al., 2012; Kanazawa, 2009; Koos and Neupert-Wentz, 2020)

Prevalence and Legal Status of Polygyny



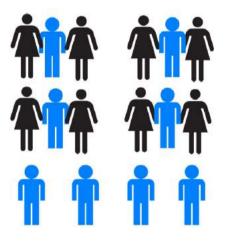
Does polygyny and its associated manifestations of inequality —directly or indirectly affect the likelihood of social unrest?

Contribution

- Broader theoretical perspective on inequality and polygyny
- Correlative evidence:
- New data set for inequality within the elite (*inheritance in polygynous societies*)
- Focus on 41 African countries with different levels of polygyny
- Differentiate results by type of inequality and type of unrest (Violent, non-violent, organized and spontaneous unrest)

Polygyny and Inequality

Vertical inequality between elite and non-elite men



- Individual-level grievances:
- Reproduction, productivity, social status & mobility – Ex.: Boko Haram, Sierra Leone, Saudi Arabia, South Africa – Reinforced at societal level
- Conditional on mobilization

Horizontal inequality within the polygynous elite

- Competition for resources (e.g. among wives, for bride prices among sons) (e.g. Rossi, 2019; Gibson and Gurmu, 2011)
- Most intense for generational succession
- Very unequal (primogeniture, e.g. South Africa), unequal (ranking of wives, e.g. Uganda), rather equal (Islamic family law)
- Destabilization of elite / Mobilization of non-elite

Gender inequality



- Polygyny \Rightarrow Gender inequality: Patriarchal values, bride prices and patrilineality, higher spousal age gaps & fertility rates (e.g. Mc-Dermott, 2015a; Hudson et al., 2015)
- Gender inequality \Rightarrow Systematic discrimination and acceptance of violence in the society (e.g. McDermott, 2015b; Bjarnegård and Melander, 2017)
- Gender inequality \Rightarrow Interstate and intrastate conflict more likely (e.g. Hudson et al., 2009; Caprioli and Boyer, 2001)

Hypotheses

H1: Vertical inequality: Higher risk for *violent* and *organized* unrest in polygynous societies. H2a: Horizontal inequality: Higher risk for *organized unrest* in polygynous societies. H2b: For trickle down effects of horizontal inequality, requires resources for mobilization. H3: Gender inequality by itself or in combination with polygyny, increases the risk for *violent* unrest.

Data and Methods

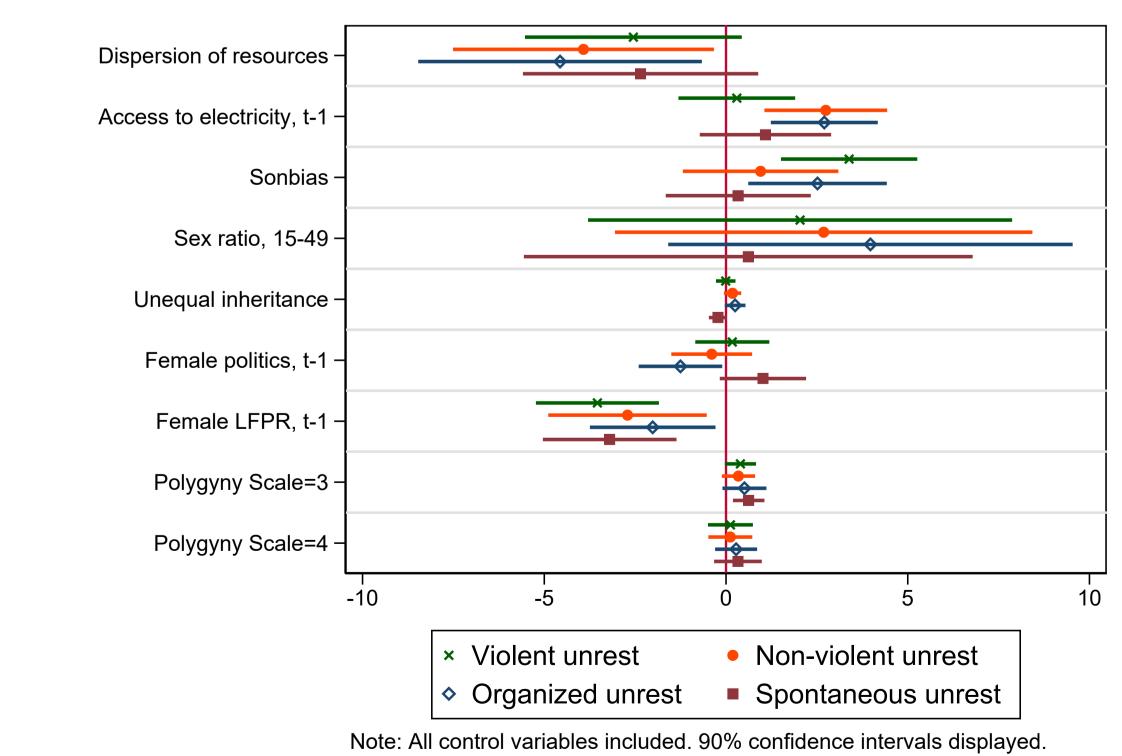
Incidence of social unrest from *Social Conflict in Africa Database (SCAD)* for 1990–2014. \Rightarrow Logistic regression with clustered standard errors and time polynomials \Rightarrow 932 Observations

Vertical inequality	Dispersion of economic power resource
	Access to electricity (WDI)
	Sex Ratio (age 15-49) (UN)
	Sonbias (OECD, SIGI)
Horizontal inequality	Own coding of inheritance laws and pra
	Own coding of inheritance laws and pra (from '0'-equal to '3'-strict concentration
Gender inequality	Female labor force participation (WDI)
	Female political participation (VDEM) (CIRI)
	Female labor force participation (WDI)

- **Polygyny** (legality and prevalence), from WomanStats in 2005-2010. – Categorical variable: low level, medium level and high level of polygyny
- **Controls:** Ongoing conflict, GDP per capita, population size, mountainous terrain, OPEC membership, unstable government, democracy, religious fractionalization, population belonging to excluded ethnic groups, neighboring countries with unrest events

Results

Incidence of social unrest



- H1: Less dispersed resources \Rightarrow higher risk for non-violent and organized unrest
- H2a: No significance for a direct effect of horizontal inequality
- H3: Gender inequality (lower female labor force participation) \Rightarrow Unrest risk (all forms) is higher
- H3: Female political participation increases the risk for spontaneous unrest, but not for others

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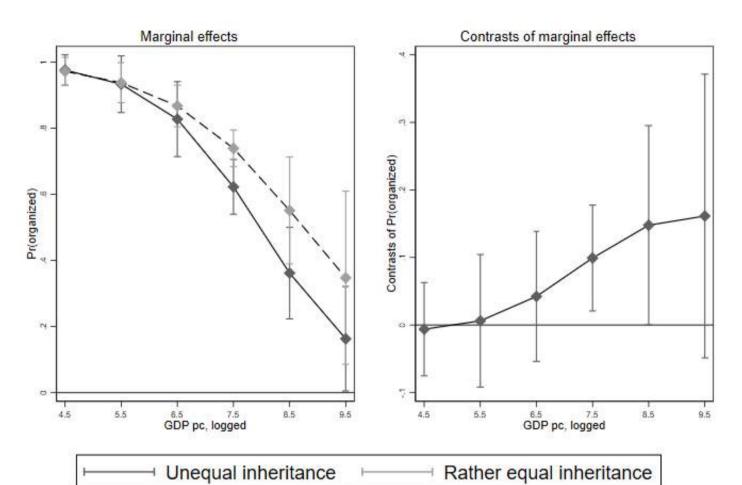
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ces (time invariant, Vanhanen, 1990)

ractices in polygynous families on on one heir)

), alternative: economic and political rights

Horizontal inequality and mobilization



Note: Marginal effects and their contrasts for the interaction effect of polygyny and GDP per capita in the baseline, 90% confidence intervals.

Theoretical and empirical challenges

- Strategic behavior of the elite \Rightarrow Not supported by empirical tests
- Male compromise theory \Rightarrow Elites may restrict polygyny to pacify society?
- Reverse causality \Rightarrow Not supported by empirical tests
- Does population growth make polygyny viable? \Rightarrow Not supported by empirical tests
- Robust results: in a linear model, a count model for the number of events, controlling for youth bulges and GINI, alternative democracy or female political empowerment measures

Conclusion

- inequality
- This potentially affects the stability of the society
- Correlative evidence supports this argumentation:
- Higher/medium levels of polygyny are associated with a higher likelihood of social unrest
- unrest if GDP per capita is high enough

Get the working paper here

References

Bjarnegård, E. and Melander, E. (2017). Pacific men: how the feminist gap explains hostility. The Pacific Review, 30(4):478–493. Caprioli, M. and Boyer, M. A. (2001). Gender, violence, and international crisis. Journal of Conflict Resolution, 45(4):503–518.

- Gibson, M. A. and Gurmu, E. (2011). Land inheritance establishes sibling competition for marriage and reproduction in rural ethiopia. Proceedings of the National Academy of Sciences, 108(6):2200–2204.
- Henrich, J., Boyd, R., and Richerson, P. J. (2012). The puzzle of monogamous marriage. *Philosophical Transactions of the Royal Society of* London B: Biological Sciences, 367(1589):657–669.

women and the security of states. *International Security*, 33(3):7–45.

nation and Political Order. American Political Science Review, 109.

Resolution, 64(2-3):402–431. McDermott, Rose Cowden, J. (2015a). Polygyny and Violence Against Women. Emory Law, 64:1769–1809.

69:753-775.

Rossi, P. (2019). Strategic choices in polygamous households: Theory and evidence from senegal. The Review of Economic Studies, 86(3):1332–1370.

Vanhanen, T. (1990). The Process of Democratization: A Comporative Study of 147 States, 1980-88. Taylor & Francis.



 $H2b \Rightarrow$ Mobilization requires resources \Rightarrow Capability of elite \Rightarrow For higher levels of GDP, the risk of unrest is higher for high levels of horizontal inequality.

• We argue that the institution of polygynous marriages is tied to three different forms of

- *Gender* inequality and *vertical* economic inequality coincide with more social unrest -Strong *horizontal* inequality comes along with higher risk of non-violent and organized

- Hudson, V. M., Caprioli, M., Ballif-Spanvill, B., McDermott, R., and Emmett, C. F. (2009). The heart of the matter: The security of
- Hudson, V. M. M., Bowen, D. L., and P.L., N. (2015). Clan Governance and State Stability: The Relationship between Female Subordi-
- Kanazawa, S. (2009). Evolutionary psychological foundations of civil wars. *The Journal of Politics*, 71(01):25–34.
- Koos, C. and Neupert-Wentz, C. (2020). Polygynous neighbors, excess men, and intergroup conflict in rural africa. *Journal of Conflict*
- McDermott, R. (2015b). Sex and Death: Gender Differences in Aggression and Motivations for Violence. International Organization,