The Human Quest for Fairness & Equality

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Overview

- The egalitarian evolutionary roots of homo sapiens
- Egalitarian behavior in contemporaneous small-scale societies
- The empirical distribution of altruism and inequality aversion in broad population samples
- The role of altruism and inequality aversion in redistributive politics
- Effort vs luck generated inequality & social preferences
- Which (social) preference type responds to information about actual inequality?
- Overall lessons for positive and normative economics



Egalitarian Roots of Homo Sapiens

- For roughly 90 percent of human history until about 11-12'000 years ago modern humans (homo sapiens) lived in hunter-gatherer societies
- Rich anthropological evidence (e.g., Kaplan & Gurven 2005, Hill & Hurtado 2009, Boehm 2012) that a considerable share of their calories were provided by
 - cooperative hunting of big game and
 - the egalitarian sharing of food even with the sick and injured
- Extremely egalitarian societies in terms of
 - Sharing the most valuable foods (e.g., meat)
 - political organization



- Hunger-Gatherer societies lacked powerful chiefs and had a rich menu of levelling mechanisms against strongmen and would-be alpha-males
 - Individual & collective criticism, ridiculing, ostracism, expulsion from groups and even killing of persistent would-be strongmen
- 90% of human history, homo sapiens lived under extremely egalitarian conditions
- Can we still observe traces of an «egalitarian ethos» in contemporary small scale societies?
 - Horticulturalist, pastoralist, mixed farming/foraging societies



In Search of Homo Economicus: Behavioral Experiments in 15 Small-Scale Societies (Henrich-Boyd-Bowles-Camerer-Fehr-Gintis-McElreath 2001)

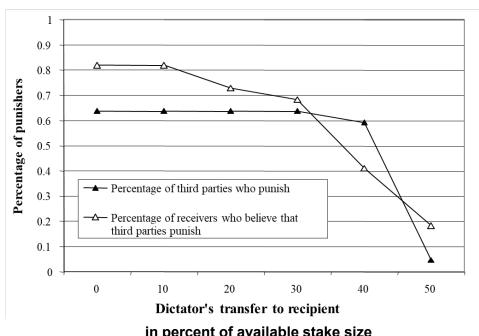
- Anthropologists and economists teamed up to conduct ultimatum games in 15 culturally very diverse small-scale societies
- Conclusion: In none of the 15 societies the subgame perfect equilibrium prediction of the self-interest model prevails
- In every society
 - Positive shares offered to recipients
 - Rejections of low offers



A powerful illustration of the **«egalitarian ethos»**

The Third Party Punishment Game (Fehr-Fischbacher 2004)

- An impartial third party observes the interaction between 2 other parties, e.g., a dictator's transfer to the passive recipient in a dictator game
- Third party has the opportunity to impose sanctions on dictator but sanctioning is costly for 3rd party
- Sanctioning indicates inappropriate or norm-violating behavior of the dictator
- Do 3rd parties punish deviations from equal sharing?



in percent of available stake size



Egalitarian ethos across 12 small-scale societies?

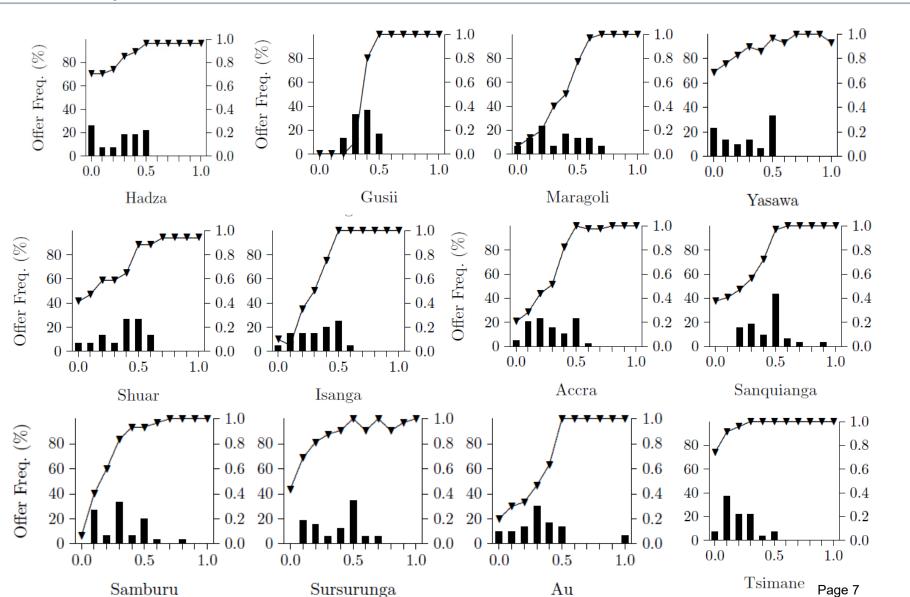
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(Henrich et al. 2006)

Prop. Not Fined

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Summarizing the Major Facts

- 1. In all societies, selfish deviations from «equal sharing» are the key trigger for individuals' willingness to sanction
 - In all societies, the egalitarian distribution norm appears to play also a key role
- 2. Some heterogeneity in the strength of punishment across societies
- Within all societies individuals' willingness to sanction selfish deviations from equality is heterogenous
 - Not all people in a society punish selfish deviations but those who do start punishing when selfish deviation from the equality norm occurs



Do preferences for fairness & equality also play a role in other important experimental games?

- Rejections of low positive offers & enforcement of large responder shares in the ultimatum game (Güth et al 1982)
- Positive giving rates in dictator games (Forsythe et al 1994)
- Positive correlation between effort & wages in gift exchange game (Fehr et al 1993)
- Positive back-transfers in the trust game (Berg et al 1994)
- Punishment of free-riders & enforcement of high cooperation levels in public good games with a punishment opportunity (Fehr & Gächter 2000)
- Expected cooperation of others induces individuals to cooperate more (Fischbacher, Gächter & Fehr 2001)
- Positive cooperation levels in the 1-shot prisoners' dilemma & 1-shot cooperation games (with free-riding as dominant selfish strategy)



Important Caveat

- Other types of social preferences also play a role in several of these games
 - Preferences for positive & negative reciprocity (Rabin, Dufwenberg & Kirchsteiger, Falk & Fischbacher)
 - Guilt aversion (Dufwenberg & Charness)
 - Altruism, surplus-maximization (Andreoni, Charness-Rabin)
 - Prosocial self-image concerns (Benabou & Tirole)
- However, the desire for fairness & equality often appears to be one key component of the deviation from pure self-interest



Puzzling Evidence Social preferences sometimes have little influence on behavior

- Quick convergence to prices close to competitive equilibrium (predicted under full selfishness) in competitive double auctions (Smith 1962) and posted offer markets (Davis & Holt 1993)
- Convergence to very low cooperation rates in one-shot repeated cooperation games (Ambrus & Pathak 2011)
- Very uneven (unfair) outcomes markets with responder competition (Fischbacher et al. 2012)
- Very uneven (unfair) offers in markets with proposer competition (Roth et al. 1991)
- In 3-player ultimatum games (proposer-reponder-receiver) the passive receiver typically receives extremely low offers (Güth & van Damme 1998)
- Minimum winning coalitions exploit the other members of legislative committees by enforcing very uneven outcomes under closed amendment rules



Why do social preferences sometimes have NO influence on behavior?

- Based on theoretical models of inequality aversion (e.g. Fehr & Schmidt 1999) or inequality aversion combined with reciprocity (Falk & Fischbacher 2006) the following holds:
 - In a population with heterogeneous social preferences the rules of the game (i.e., the institutional environment) often have a decisive influence on
 - whether prosocial types dominate the equilibrium outcome or
 - whether selfish types dominate the equilibrium outcome
 - Institutional environment affects whether the selfish types behave prosocially or whether the social preference types behave selfishly
 - Institutions have important often overlooked function in the presence of heterogenous social preferences



Preliminary Summary

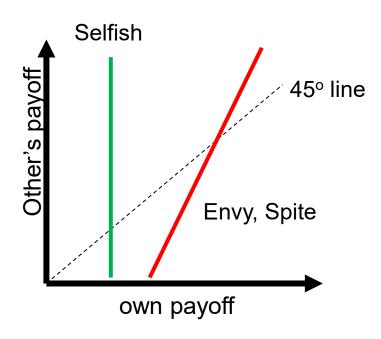
- Rich anthropological evidence suggests that humans lived under extremely egalitarian conditions for most of their time
 - Egalitarian conditions were sustained by a strong «egalitarian ethos» that was enforced through effective leveling mechanisms
- Egalitarian ethos can still be observed in individuals' behavior in contemporary small scale societies
- Quest for distributional equality also appears to play a prominent role in many experimental games conducted with student populations
- However, the quest for fairness & equality and social preferences in general – are always characterized by strong heterogeneity across individuals

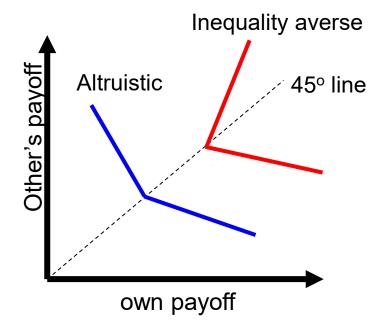


Distributional preferences in broad samples of Western populations What are their fundamental properties?

Selfishness, Envy, Spite

Altruism & Inequality Aversion

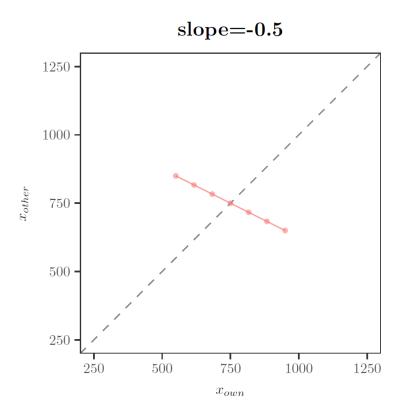


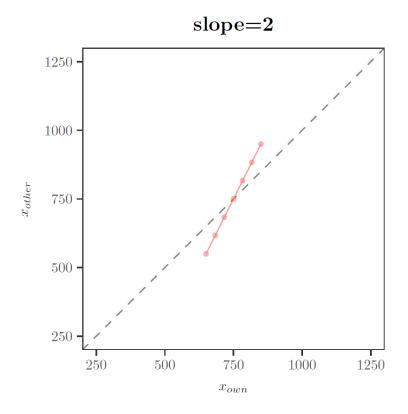




Measuring distributional preferences

(with experiment with real money at stake)



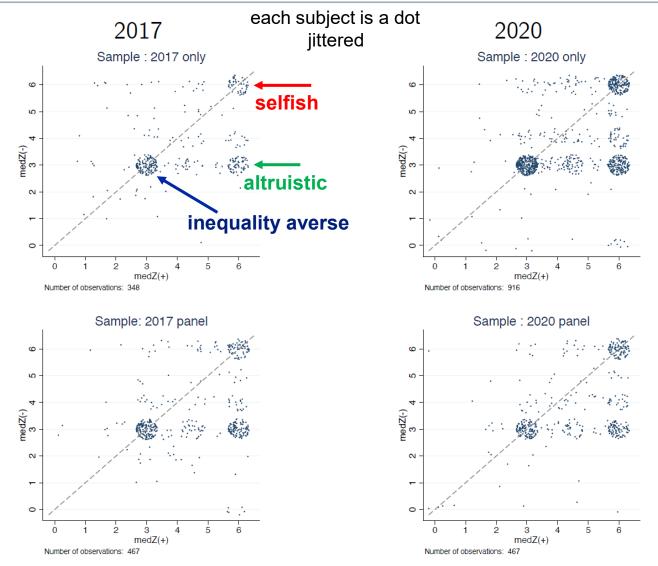




Distribution of Social Preferences in CH

(data taken from Fehr-Epper-Senn, WP 2022)

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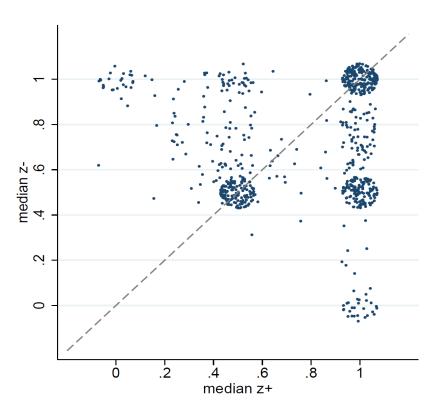




Distribution of Social Preferences in Denmark

(3600 individuals age 32-42, 2017)

(Epper/Fehr/Fehr-Duda/Kreiner/Dreyer-Lassen/Peterson/Rasmussen AER 2020)

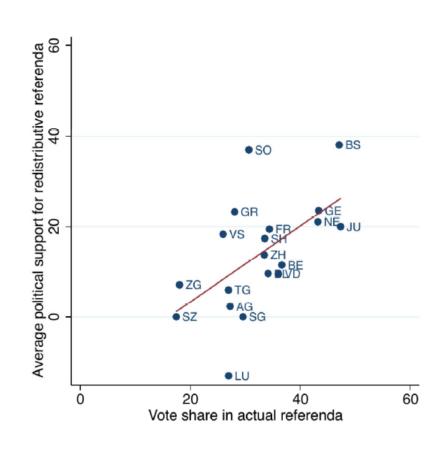


- Typically three big clusters emerge
 - Inequality averse
 - Altruistic
 - Selfish
- Applying rigorous clustering methods also yields 3 clusters



Do distributional preferences explain support for redistributive voting? (studied in Swiss direct democratic set-up – Fehr/Epper/Senn WP 2021)

- We study determinants of support for four strongly redistributive policy measures that were up for voting in a referendum in CH
- Measure Ss support for redistributive proposals
- Validate our support measure with the actual cantonal vote shares (see slide)
- Controlling for a host of covariates, do social preferences predict support for redistributive policy measures?

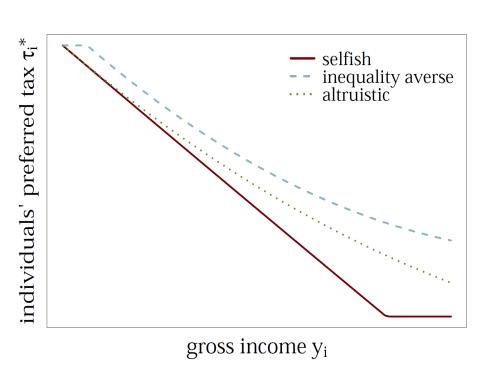




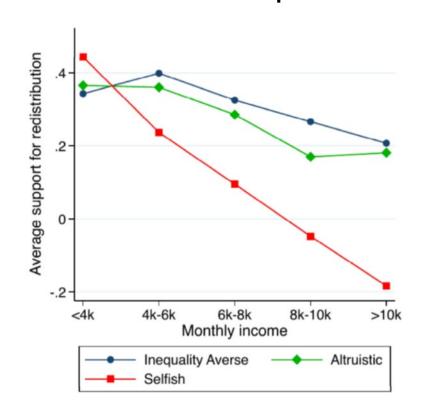
Distributional preferences & redistributive voting Fehr/Epper/Senn WP 2021

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Social preference augmented Meltzer-Richards Model



The empirical role of distributional preferences





Other controls

- Effects remain large after controlling for factors below
- Cantonal fixed effects, age, age squared, language, married, education level
- Full-time, part-time, unemployed, out for labor force, past unemployment
- Risk aversion, patience, negative & positive reciprocity, general trust in strangers
- Beliefs in future income mobility, past income mobility
- Individual effort vs. luck as determinants of individual success
- Perceived inequality, perceived extent of poverty
- Mistrust in politicians



Luck versus effort generated inequality

- Strong evidence that inequality due to effort/performance is much more acceptable than inequality due to mere luck (e.g., Cappelen et al. 2007; Almas et al. 2010)
 - Efficiency cost of redistribution much smaller influence on demand for redistribution compared to fairness concerns
- Subjects who believe that luck (effort) is important for individuals' economic success are more in favor of (opposed to) politically enforced redistribution (e.g. Fong 2001; Alesina & Giuliano 2011)
- In previous research, subjects' beliefs in luck versus effort as key for economic success is one of the strongest and most robust predictors of support for redistribution

Fair versus unfair inequality & self-interest

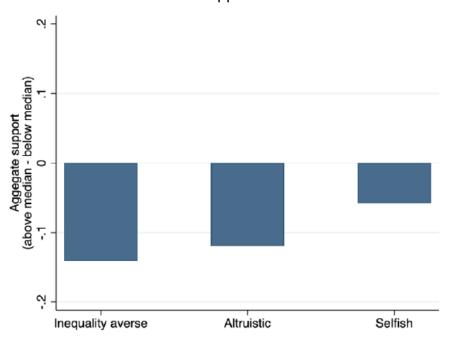
- Research by Almas/Cappelen/Tungodden suggests:
 - Luck-generated inequality viewed as rather unfair
 - Effort generated inequality viewed as more fair
- Why should purely self-interested individuals, who do not care about other's well-being, intrinsically care about fairness?
- Are other-regarding preferences a pre-requisite for these beliefs to matter for redistribution?



Are social preferences a prerequisite for the impact of effort beliefs on the demand for redistribution?

Impact of effort belief on demand for redistribution conditional on preference type

Fehr/Epper/Senn WP 2021



 Effort believes are statistically irrelevant for selfish individuals



The causal impact of correcting exaggerated beliefs about income inequality

(Epper-Fehr-Henkel-Senn mimeo 2022)

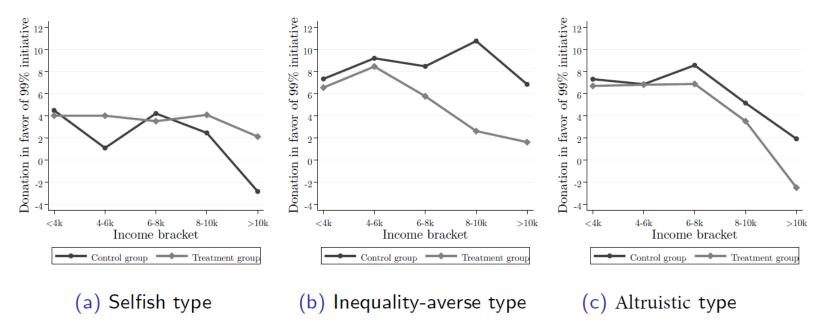
- Preregistered hypothesis:
- It's primarily inequality averse individuals with high (abovemedian) incomes that reduce their demand for redistribution
- Rationale:
- Both selfish & inequality averse individuals low-income individuals have a selfish reason for redistribution that is unaffected by information about inequality
- But inequality averse high-income individuals should reduce their demand for redistribution if their false beliefs are correctd

- Preregistered RCT in the context of the 99% initiative in CH
- Above an income/wealth threshold income from wealth (dividends, interest, etc.) should be taxed at a 50% higher rate than labor income



Do primarily inequality averse individuals change their demand for redistribution? (Epper-Fehr-Henkel-Senn mimeo 2022)

Control group: Subjects have uncorrected, exaggerated beliefs about income inequality Treatment group: Subjects have largely correct beliefs about prevailing income inequality



Notes: The y-scale indicates the donation amount towards an organization in favor of the 99% initiative, with donations towards an organization that opposes the 99% initiative coded as negative values (i.e. the values can range from -20 CHF to 20 CHF).



Summary

- 1. Rich anthropological evidence suggests that humans lived under extremely egalitarian conditions for most of their time
- 2. Egalitarian ethos can still be observed in individuals' behavior in contemporary small scale societies and shows up in many experiments with student subject pools
- 3. Distributional preferences in representative broad population samples can often be characterized by parsimonious type distribution
 - Our samples exhibit three global types: inequity averse, altruistic, selfish
 - More generosity in advantageous domain is strongly correlated with more desire for equality in disadvantageous domain



- 4. Inequality aversion (and altruism) appear to play a major role in the political demand for redistribution
 - Inequality aversion almost nullifies the impact of income on the demand for redistribution
 - It is primarily the inequality averse that respond to information about actual inequality
- 5. Subjects' beliefs in luck/effort as a determinant of individuals' success is a major determinant of the demand for redistribution
 - Yet, the relevance of these beliefs is predicated on the existence of other-regarding preferences
 - For self-interested individuals these beliefs appear irrelevant for their demand for redistribution



Overall Lessons for Positive & Normative Economics

- Support for policies with redistributive implications cannot be understood without taking other-regarding peferences into account
- Given the ample evidence that large shares of the population have otherregarding preferences, normative political economy (e.g., optimal tax theory) should take these preferences into account
 - Conclusions about optimal taxes may substantially differ if individuals' altruism and inequality aversion is taken into account
 - Same holds true if individuals care about «equality of opportunity»,
 i.e., if the source of income inequality («luck vs effort») affects
 individuals' utilities