

Searching for *Homo Economicus*: Variation in Americans' Construals of and Attitudes toward Markets*

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Economic sociologists agree that economic rationality is constructed and that morality and economic interests often intersect. Yet we know little about how Americans organize their economic beliefs or assess the morality of markets. To make progress, it is necessary to distinguish between how actors construe markets (how they understand and structure their attitudes toward markets) and their normative positions on markets' proper role. Using data from the General Social Survey, we employ Relational Class Analysis to identify three subsets of respondents whose members construe economic markets in distinct ways. Compared to the full sample, subsamples display markedly more structure in associations among responses, and between attitudes and sociodemographic predictors. Support for market solutions is associated with indicators of economic advantage in each subset, but religious and political identities, respectively, predict pro-market views uniquely in subsamples that construe markets through a religious or political lens. Results illustrate the value of distinguishing between construals and positions and examining population heterogeneity in opinion data; identify and explain variations in how Americans' understand markets; and illuminate the moral dimension in economic attitudes. Self-interest drives faith in markets, but only when people construe markets in ways consistent with their religious and political faiths.

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Most economic sociologists agree that economic markets are described, perceived and enacted through profoundly moral frames and narratives; that markets are not just allocative instruments but are also moral products; and that normative conceptions of markets are various and conflicting (Fourcade and Healy 2007). Despite the seeming consensus among sociologists that *homo economicus* – the utility-maximizing creature presupposed in much neoclassical economic theory – is more a theoretical convenience than an empirical reality, we know little about popular understandings of, and public opinion about, markets.

We focus on Americans' commitment to markets as a means of distributing a wide range of goods and services, and their willingness to condemn or limit the use of markets on behalf of moral or social values. We ask, first, what can we infer from survey responses about the meanings that people attach to market exchange and the ways that they organize these meanings? Second, what kinds of people are most committed to the use of markets as solutions to social dilemmas and what kinds of people are most willing to regulate, limit, or even ban markets in the interests of noneconomic values?

This paper innovates in distinguishing between *construals* (meaning structures upon which actors draw to understand domains of social life) and *positions* (actors' normative beliefs, given the construals they adopt). We posit that individuals may endorse similar normative positions even if their underlying understandings of a domain differ; and that, by the same token, they may reach different normative conclusions even if in interpretative agreement. For example, Occupy Wall Street protesters and bankers may share a construal, agreeing that self-interested profit seeking and social equality are incompatible, but take different positions on how policy should make tradeoffs between

them. A methodological implication of this view, which this paper pursues, is that opinion data are vulnerable to population heterogeneity in construals (not only in positions as is commonly assumed), such that analyses of full samples may lead to misleading conclusions.

We regard different construals as often reflecting interpenetration of institutional boundaries. Sociologists commonly conceptualize social institutions (e.g., the market or the family) as differentiated domains that embody distinct, and internally coherent, standards of value and forms of perception (Friedland and Alford 1991; Boltanski and Thevenot 2006; Thornton, Occasio and Lounsbury 2012). But individuals crosscut these institutional boundaries: we all have families, we all operate in market society, and many of us attend religious services or participate in politics. We doubt that individuals switch seamlessly between construals as they move across institutional spaces. Rather, drawing on approaches that imply a loose coupling between settings and construals (e.g. Stark 2009), we posit that criteria of interpretation and valuation cross institutional boundaries, and that much heterogeneity in construals of the market may be explained by variation in exposure and commitment to such institutions as religion and politics.

After presenting theory and expectations, we test our predictions on a sample of respondents to the 1996 General Social Survey Markets Module, a uniquely appropriate and underexploited resource for the study of attitudes toward markets.¹ Our analyses proceed in four stages. First, we demonstrate that analyzing the full sample, assuming no population heterogeneity in construals, yields low levels of explained variance and seemingly inconsistent conclusions. Second, we identify three sets of respondents, each sub-

¹Although we wish that more recent data were available, its absence does not obviate this study's value for four reasons: First, the data's vintage does not affect the generalizability of a main conclusion that attitudes toward the market are structured by distinctive construals, such that analyses of positions in a full sample

scribing to a different construal of the market, using Relational Class Analysis (Goldberg 2011), a statistical approach designed to identify subsets of survey respondents among whom responses are associated in similar ways. Third, we analyze the predictors of positive attitudes toward the market within each subset. Finally, we identify the predictors of the construals that individuals with pro-market attitudes adopt.

Our findings enrich classical sociological views of markets as moral projects by demonstrating the diversity of ways in which Americans understand markets. We show not only that economic rationality is socially constructed, but also how different kinds of people construct economic rationality in different ways. Distinguishing between construals and positions, we establish that few Americans either hew to or oppose an extreme neoclassical understanding of the appropriate role of markets in economic life. Once one identifies distinctive construals (but not before), analyses demonstrate that people who benefit most from markets are most likely to support them. But first, most adapt their understanding of the market to their religious and political convictions, in effect constructing versions of the market they find morally tolerable.

Economic Rationalities and Normative Assessments of Markets

Whereas economists often view rational, self-interested behavior as, if not natural, at least a convenient starting point for analysis of economic behavior in market societies, sociologists, anthropologists, and historians tend to emphasize the constructedness of economic self-interest and the cultural specificity of markets (Fourcade and Healy 2007; Gal 2002; Guiso et al 2006; Zelizer 2007). From Adam Smith (1759; 1776) onward, classical theorists recognized markets as cultural projects rooted in morality. Weber (1905) famously discerned both the roots of economic rationality in religious faith.

Polanyi (1944) contended that the 18th-century model of “market society” – a society in which self-sufficient economic markets in land, labor and commodities carried the main burden of satisfying human needs – was a radically utopian notion that required political intervention to restore the balance between economic theory and human welfare.

Economic sociologists contend that even when people maximize utility, concepts of utility are themselves variably constructed products of social circumstance (Etzioni 1990; Henrich et al. 2001). Individual utility functions diverge from the economic ideal in at least two respects. First, people vary in the extent to which they incorporate the welfare of others into their own utility functions and in the range of others (from one’s family of procreation through one’s community through humanity at large) whose welfare they incorporate (Sen 1977). Second, people vary in the extent to which they treat certain transactions as appropriate for pure market exchange, either making efforts to disguise their economic character (Almeling 2007) or (as in the case of laws forbidding prostitution or organ sales) warranting complete prohibition (Zelizer 1994).

If calculative rationality is not a hard-wired human predisposition, then where does it originate? Neoinstitutional theory emphasizes normative processes that define certain behaviors as desirable and “rational,” pressuring actors to conform (Meyer, Boli, Thomas and Ramirez 1997). Research on “performativity” has focused specifically on economics as an institutional force, arguing that due to economists’ social and scientific prestige and access to policy makers, economic theories serve to create the empirical realities they claim merely to describe (Callon 2007; for evidence, see Marwell and Ames 1981; Frank, Gilovich and Regan 1993).

If economic rationality is socially constructed rather than innate, then it follows that it may be constructed *in different ways*, of which stylized conceptions of economic rationality represent only one. Thus to understand attitudes toward the market, we must first identify subsets of respondents with varying constructions of economic rationality, inferred from distinctive patterns of associations among indicators of attitudes toward market exchange. We refer to such distinctive patterns as *construals*.

Construal: Variation in Understandings of the Market

The concept of “construal” may be unfamiliar to sociologists outside of the fields of social psychology (Tsoudis and Smith-Lovin 2001). The construct became prominent among students of cross-cultural variation in self-construal (understanding of the self and its relations to other entities) (Markus and Kitayama 1991) and spread widely within social and cognitive psychology. Construals vary in level of abstraction: “Situational construals” fill in unknowns in a representation of a specific event; “high-level construals” are broader, more abstract representations that can extend to entire domains (Ledgerwood, Trope and Liberman 2015). In this paper, we explore high-level construals of economic markets, a novel application but one consistent with evolving usage.

We prefer the term “construal” to such alternatives as “ideology,” which implies a tighter, more elaborate and more discursively available network of beliefs, or “institutional logic,” which is a property of contexts or domains rather than of persons. Extending construal theory to the study of social attitudes is a natural step: Construals are implicit understandings or explicit narratives that entail relations of implication, entailment, opposition and exclusion among beliefs in a particular domain. Construals are different from attitudes in two ways. First, they refer to *patterns of association among attitudes*,

rather than to the attitudes themselves. Second, actors may share construals even when their attitudes differ, so long as they understand attitudes to be related in similar ways. Thus the notion of construal invites an intrinsically relational approach to attitudes and a distinction between representations and preferences.

We draw on literatures in three areas – economic sociology, institutional logics, and public opinion – to explain why it is necessary to identify heterogeneity in construals of the market *before* trying to explain the positions that people take on the market's proper role and regulation.

Economic sociology. Economic sociology has taught us that no natural affinity exists between particular ideas about markets, exchange behavior and economic policy. Such ideas go together only in so far as people understand and accept a constructed narrative that links them. Neoclassical thought is strongly institutionalized in much of the world, but with distinctive national variations, and many economists deviate from neoclassical orthodoxy (Dobbin 1993; Fourcade 2006; 2009).

Understandings of and attitudes toward markets are suffused with moral sentiment (Fourcade and Healy 2007; Almeling 2007; Anteby 2010). Markets are moralizing arenas that categorize, naturalize and assign value to different behaviors and people. As Weber noted in *Economy and Society* (1922), markets invariably challenge distinctions between the sacred and the profane. Interpersonal intimacy, bodily products and the natural environment all, at different historical circumstances, have been seen as too sacred to debase through commodification (Healy 2006; Zelizer 2007; Fourcade 2011). Market construals differ from one another in the boundaries they prescribe, and, by extension, the different visions of social order they embody.

Market construals vary historically. Although the rise of the market is neither inexorable (Zelizer 1988) nor uncontested (Turco 2012), the scope of goods subject to market exchange has expanded, encompassing land and labor (Polanyi 1944), prestige goods formerly monopolized by status groups (Weber 1922:934-39), and risk (Zelizer 1983). Fligstein (1993) charts fundamental shifts in economists' and executives' understandings of the relationship between markets and firms; and McCall (2013) documents change in beliefs about economic inequality and policies to ameliorate it.

As market construals evolve over time, so they vary over space. Cross-national differences in the use of markets to distribute blood constitute a famous example (Titmuss 1971; Healy 2006). Similarly, laws regulating human organ sales (and their efficacy in curbing black markets) vary cross-nationally (Scheper-Hughes 2000). Fourcade (2009) demonstrates sharp differences in premises about economic life between economists in the U.S., U.K. and France. Beckert (2008) describes fundamental differences in understandings of inheritance as inscribed in the laws of France, Germany and the U.S. Similar differences exist in conceptions of the proper role of management (Boltanski and Thévenot 2006), in connections among firms in a market (Granovetter 1995), and in interactions between firms and the state (Hamilton & Biggart 1988).

Even within one society, actors in different structural locations may understand markets in different ways. As Bourdieu notes, to perceive oneself as an actor in an abstract market, one needs to have acquired the proper "dispositions and beliefs ... through early and protracted experience of [the market's] regularities and necessities" (Bourdieu 2005: 8). "Below a certain threshold" of economic security and education, writes Bourdieu (2000: 27), "rational dispositions cannot be constituted." If the economic

habitus shapes practices, so it may affect beliefs about the appropriate domain of economic markets, proper behavior in economic exchange, and views of economic policies.

Institutional logics. Classical sociology (Durkheim 2014 [1893]; Parsons 1966: 24-25) viewed institutional differentiation as an inexorable feature of human social evolution. Indeed, the classical economic notion of the market as an institution through which the pursuit of self-interest enhances social welfare implied a radical decoupling of the economic from the religious and political domains. Theories of institutional logics (Bell 1976; Friedland and Alford 1991; Boltanski and Thevenot 2006; Thornton, Ocasio and Lounsbury 2012) posit that different institutional settings – the economy, the polity, religion, the family – entail contrasting standards of value and forms of perception.² But domain boundaries are never absolute: their relationship is an empirical question and a potential source of conflict and social change (Friedland and Alford 1991; Stark 2009).

How might institutional logics align with individuals' construals of markets? As properties of institutions, logics are linked to particular settings. But individuals may segregate domains of activity or, alternately, annex subordinate domains to those with which they are most consistently engaged (Lindsay 2007).

Prolonged exposure to an institutional setting may shape market construals by rendering the relevant institutional logic (and representations, ideas, and symbols associated with it) more salient and more chronically activated, even transposing it across domains. Thus participation in market economies affects many psychological dispositions (Lane 1991); and experimental studies find wealthy people better at utility maxim-

² Thornton, Ocasio and Lounsbury (2012: 2) define institutional logic as “the socially constructed, historical patterns of cultural symbols and material practices, including assumptions, values and beliefs, by which individuals and organizations provide meaning to their daily activity, organize time and space and reproduce their lives and experiences.”

izing (in a narrowly economic sense) than people with less exposure to markets (Choi, Kariv, Müller and Silverman 2014). The inverse should also be true, so that people consistently exposed and emotionally committed to non-market institutional domains will configure their understandings of the market accordingly.

Public opinion research. The recognition that different respondents organize opinion domains in distinctive ways, and that variation in constructions may be orthogonal to variation in attitudes, has important implications for analyzing data from opinion surveys. Two implicit assumptions, *response identity* and *item fungibility*, guide most research that uses survey-based attitude data. By *identity* we mean the assumption that a given response means the same thing to each respondent who chooses it. This assumption is implicit in the practice of using survey items to compare opinions of different population samples or subsamples. When items are combined into scales (e.g., to examine such constructs as tolerance or economic conservatism) item responses are further treated as *fungible* in the following sense: Respondents who respond affirmatively to, e.g., four items on an eight-item scale are believed to hold similar views (at the midpoint of the scale) even if the affirmative responses are to different items. These two assumptions – *identity of meaning* and *fungibility within scales* – characterize most attitude research.

But what if a survey item means different things to different respondents? Take, for example, responses to a hypothetical item tapping support for lenient or restrictive immigration policies. Moral evaluations of immigrants may drive the views of some respondents. The responses of others may reflect beliefs about economic effects of immigration. Because responses to this item are embedded in different networks of beliefs

and representations for different respondents, neither a single scaling strategy nor one causal model will suffice (Ceobanu and Escandell, 2010).

In a classic paper, Converse (1964) argued that responses to individual survey items are embedded in broader systems of meaning by which they are constrained. But Converse viewed such constraining structures as largely restricted to elites and people with lots of schooling. Indeed, educational attainment *is* typically associated with attitude constraint (*i.e.*, with the extent to which beliefs are coherently and consistently organized) (Zaller 1992). But the fact that the responses of educated respondents exhibit more constraint than those of less educated respondents does not necessarily mean that the latter's views are simply noisy versions of the former's. As Meyer (1977) and Collins (1979) have noted, higher education is a powerful source of identity and socialization; thus one would expect it to structure understandings of many social domains. "Less education," by contrast, is neither a master identity nor a form of socialization: The responses of less educated respondents are likely to be structured by different identities and socializing experiences, the opinion-constraining effects of which will be invisible if respondents are grouped by level of schooling (Kinder 2006; Achterberg and Houtman 2009). Thus African Americans with less schooling than whites nonetheless exhibit more constraint in racial attitudes (Carmines and Stimson 1982), and religiosity generates high levels of attitude constraint among Evangelical Christians (Jelen 1990).

Institutional Foundations of Construals and Positions

If subsets of Americans understand the market in different ways, along what social axes might these construals diverge? And how might such axes of differentiation vary from identities and experiences that lead respondents to exhibit more or less favorable attitudes

towards markets, independent of the construals they embrace? Construal and position taking are closely connected, but we separate them analytically here, discussing influences on construals first and then turning to factors likely to influence normative positions.

Construal. For factors that may shape differing construals, we look to institutionalized social identities that (a) entail orientations at odds with the market and (b) exhibit relatively high levels of ideological structure due to the prominence of specialists in the codification and alignment of beliefs. By these criteria, two dimensions of social identity should be especially salient.³

The first of these is *religion*. Previous studies have reported that Protestants, especially in congregations influenced by the prosperity gospel, which associates religious faith and freedom with economic individualism and laissez-faire economics, tend to support free-market capitalism (Wuthnow 1988; Steensland and Schrank 2011). By contrast, members of more communitarian, less anti-statist faiths, such as Catholics, Jews, and some Mainline Protestants, are often more critical of unbridled capitalism (Barker and Carman 2000). But even among Evangelicals, support for free-market views is not unqualified: Religious leaders of many denominations vigorously repudiate market transactions that challenge traditional visions of the sanctity of life, body and sexual purity (Greely and Hout 2006). The combination of enthusiasm for laissez-faire capitalism with a willingness to restrict the sphere of market transactions that threaten sacred boundaries leads us to expect that religiously observant respondents, while differing on particular issues, will construe economic rationality in distinctive ways.

³ Other institutions fail on one or both of the criteria. The institutional logic of kinship (Friedland and Alford 1991) diverges from economic values, but is not ideologically structured. The field of art has ideological specialists, but with less pressure toward consistency and therefore a less clear opposition to economic modes of valuation.

Second, we expect *political identity* to shape the organization of economic attitudes. While no mainstream U.S. political movement questions the centrality of markets to the economic system, conservatives and liberals vary in their willingness to regulate markets, the degree to which they view markets as liberating or coercive, and their support for redistributive policies. U.S. political conservatives historically have rejected government intervention both on moral and practical grounds (Friedman 2002; Burns 2009). Nonetheless many pro-market economists support government regulation to correct market failures and make markets more efficient (Fourcade and Healy 2007; Weisbrod 1964). In particular, liberal economists ordinarily favor measures like truth-in-lending laws that address information asymmetries, as well as regulations to protect the environment (degradation of which is a negative externality of much economic activity) (Shipan and Lowry 2001). Thus we expect political identity to shape respondents' economic construals, both by influencing the economic theories they bring to bear and by affecting the permeability of boundaries between the political and economic domains. As with religion, we anticipate that political identities will influence construals directly and will also interact with construals to affect attitudes toward the market.

Positions. People who *construe* the market similarly may nonetheless *evaluate* markets vary differently. Some variation will reflect factors peculiar to each construal. More generally, however, we expect factors that enhance people's ability to reap the market's rewards to engender support for markets and trust in market institutions.

Four such factors are prominent. The first is income, both an indicator of prior success (or inherited wealth) and a resource that increases access to market rewards (Nau 2013). Much research indicates that the wealthy tend to adopt beliefs that justify their

privilege; for example, higher levels of economic inequality increase the tendency of the well-to-do to believe in meritocracy (Newman, Johnston and Lown 2014). Thus we expect that higher incomes will be associated with more positive views of market exchange.

The second factor, race, affects access to jobs, wages, health, decent housing, and treatment by the criminal-justice system (Pager and Shepherd 2008). Although few studies report racial effects on the kinds of attitudes we consider here, previous research demonstrates that African-Americans, upon whom the cost of racial disadvantage falls most heavily, are more likely to attribute poverty to structural factors and less likely than comparable whites to identify as middle class (Kluegel and Smith 1981). It follows that African-Americans will be less likely to view markets as impersonal, fair and benign and otherwise hold less favorable views of markets than members of other groups.

Gender also affects access to market rewards (Ridgeway 2011). The Victorian ideology of “separate spheres” (Davies and Frink 2010) explicitly portrayed middle-class women as guardians of the home, viewed as a curated space protected from the values of the market. Even as barriers to women’s labor-market participation gradually fell, women have remained disadvantaged both materially and symbolically within the labor market (Petersen and Saporta 2004; Brines 1994). Research suggests that, despite real transformations in women’s labor-market positions (Fernandez 2013), gendered expectations about market behaviors resist change and femininity continues to be constructed as antithetical to the calculative rationality of *homo economicus* (Ridgeway 2011). Moreover, the commodification of the human body – from advertising to prostitution and surrogacy – disproportionately targets women. Women, in other words, are both disadvantaged by

the market and culturally constructed as incongruent with it. We therefore expect women to express less favorable attitudes toward markets than men.

A fourth factor is schooling, which is strongly associated with increased earnings and other measures of labor-market success (Hout 2012). Moreover, exposure to formal education socializes students into norms of rationality and individualism that underpin pro-market views (Meyer et al. 1997, Meyer and Bromley 2013).

These expectations are consistent with results of previous research. Sociological studies of popular orientations toward economic fairness and inequality report that Americans' faith in their economic system is strengthened by formal schooling and economic success (Hochschild 1981; Kleugel and Smith 1981; Osberg and Smeeding 2006). A study comparing professional economists to laypeople found that formal education, being male, and expecting income growth all increased the extent to which lay views aligned with those of professionals (Caplan 2001).

Data and Analytic Strategy

Data are from the 1996 Markets Module of the General Social Survey (GSS), a biennial household sample survey fielded on a regular basis since the late 1960s by the University of Chicago's National Opinion Research Center. The GSS consists of a set of core items asked regularly of all respondents, and changing modules devoted to particular topics.

The Markets Module included items on topics of interest to economic sociologists.

Measures of Economic Orientation

We focus on seven items, summarized in Table 1, that tap normative views of economic exchange. We scale these items so that higher values correspond to a neoclassically ori-

ented pro-market perspective.⁴ The first two items tap normative orientations toward profit making. The first probes respondents' evaluations of profit maximizing, asking whether it is acceptable for a manufacturer to hold prices constant even when manufacturing costs have declined. The second examines whether respondents perceive profit

Table1: Economic attitude variables*

| | Label | Economistic response |
|--------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Profit Making | Profit | It is acceptable that a small table manufacturer continues to charge the same price even after production costs decrease by 10%. |
| | Trickle-down | Allowing business to make good profits is the best way to improve everyone's standard of living. |
| Intimate Goods & Services | Organ | People with two healthy kidneys should be permitted to sell a kidney to a hospital or organ center to use for transplants. |
| | Surrogacy | The practice of paid child surrogacy should be permitted under the law. |
| | Prostitution | There is nothing wrong with exchanging money for sex. |
| Regulation | Environment | Environments supporting endangered species should not be protected when economic benefits can be gained. |
| | Consumer | It is not the responsibility of government to require businesses to provide customers with the information they need to make informed choices. |

*Wordings of some items reflect rescaling so that higher values were more pro-market. See Appendix for detailed original wording.

making as inherently in tension with social welfare. Together they speak to a core principle of neoclassical thought, derived from Adam Smith's famous dictum that the pursuit of self-interest is not only unobjectionable but can also contribute to the common good.

The following three items concern the appropriate role of markets in allocating intimate goods and services: the sale, respectively, of organs, surrogate motherhood and sexual intimacy. In each case, we associate approval of the use of markets with an econo-

⁴ The GSS Markets Module included ninety-four items. Fifty-seven of these items elicited information about actual economic transactions in which respondents had participated, and were thus irrelevant for our purposes. Twelve more items asked hypothetical questions about transactions, focusing on respondents' orientations toward transactions within their social or family networks; two asked about participation in garage sales; three about work in a family business; and four about the division of economic labor and decision making within marriages. These, too, were not directly relevant. Of sixteen normative items, three items about inequality contained no nexus to markets; the implications of two items for attitudes toward the market were difficult to interpret; and four questions generated variables with more than two (non-ordered) categories, which Relational Class Analysis cannot use. The seven remaining items are the ones included in these analyses.

mistic viewpoint, and opposition with a less economistic way of viewing the world. Each item deals with the appropriateness of trading an intimate good on the market, and all three forms of exchange have elicited strong objections on ethical grounds. There are nonetheless important differences among them. First, each is regarded differently in the eyes of the law. Whereas organ trade and prostitution are illegal in the U.S. (the latter except in parts of Nevada), treatment of surrogacy is mixed.⁵ Cross-nationally, prostitution (as distinct from procuring or brothel proprietorship) is legal in much of the world (Pro-Con.org 2014), whereas organ sales are illegal in almost every country but Iran, where they are highly regulated (Hippen 2008). Moreover, objections to these markets reflect a sense of violation of the sacredness of different spheres: whereas organ trade and surrogacy arguably challenge the sanctity of the human body, prostitution is held to contaminate the purity of love and sexual relationships. Finally, whereas the organ trade is gender blind, women are especially vulnerable to harms from surrogacy and prostitution.

A sixth item examines the sanctity of a non-human realm: the natural environment. Respondents were asked whether endangered species should be protected irrespective of economic considerations. We interpret the acceptance of the subordination of nature to the market as consistent with an economistic perspective. The final item deals with another form of regulation, asking respondents if government should require businesses to provide consumers with information. Government regulation to promote transparency is not inherently antithetical to pro-market opinion, and many economists support it. Culturally and politically, however, neoclassical orthodoxy has been linked to op-

⁵ Compensated surrogacy arrangements are subject to criminal sanctions only in Michigan, New York, and Washington, but in several other states surrogacy contracts are unenforceable or the law is unsettled (<http://www.creativefamilyconnections.com/us-surrogacy-law-map/washington>).

position to most forms of government regulation. We therefore treat disagreement with government regulation as an expression of economism.

Other Variables

We model variation in economic orientations as a function of several sociodemographic variables (for a detailed description, see Appendix A). Religion is measured on two dimensions. We use Steensland et al's (2000) classification of faiths to measure *religious identity*.⁶ *Religiosity* is measured as the frequency of attending religious services. *Gender* is straightforwardly measured by a dummy variable (where 1=female). Two standard self-identification scales tap political orientation: *ideological identity* (strong liberal to strong conservative), and *partisanship* (strong Democrat to strong Republican).

Family income is self-reported (and log-transformed in the following analyses). We also use *occupation* codes to distinguish between those in white-collar jobs (managers and professionals), and those in blue-collar, agricultural and non-skilled service jobs. We measure education as years of formal schooling.

Additional variables include *age* in years, which may be related to views of the market due both to cohort and aging effects. We measure *race* with a dichotomous variable, where 1=African-American. We use *region* and *community size* (log transformed) to control for effects of regional subcultures and rural residence, and include a dummy variable that identifies respondents born outside the United States. Finally, we examine marital status and number of children, which previous research indicates can affect one's economic attitudes (Dahl, Dezsó and Ross 2012).

⁶ Because initial analyses using all seven categories suggested by Steensland et al (2000) led to over-fitting, we collapse Mainline, Non-Denominational and Black Protestants into one group (the reference category in the following models) and collapse Jewish and Other Religion.

Analytic strategy

Our analytic strategy is quadrupartite. First, we proceed conventionally as if our sample were homogeneous with respect to market construals, assuming that items mean the same thing to all respondents and are fungible within scales. We construct a scale of views consistent with a conservative version of neoclassical economics and examine the predictors of adherence to that scale and agreement with its component items. These models perform poorly, suggesting a lack of structure in respondents' economic beliefs.

Second, we examine *heterogeneity in construals* within the full sample. We employ Relational Class Analysis (Goldberg 2011) to identify sets of respondents who organize opinion domains in similar ways. We identify three subsets of respondents with distinctive patterns of association among attitude items, and construct scales based on the specific form of pro-market attitudes found in each subset, making inferences about the construals that underlie the observed patterns.

Third, we focus upon the sociodemographic predictors of pro-market attitudes, conditional on construal. These models differ from one another and exhibit markedly superior predictive power when compared to models assuming homogeneity within the entire sample. This is the case even though the sample was partitioned solely on the basis of responses to attitude items, without using any information about respondent demographics, religious beliefs, or political identities.

Finally, we look among people who endorse positive views of the market, and ask what kinds of peoples evince which construals. Americans, we conclude, tend to craft versions of the market consistent with their religious faith and political values.

Results, pt. 1: Analysis of the Full Sample

We begin by constructing a stylized *homo economicus* – a pattern of responses consistent with the theoretical tenets and normative intuitions of neoclassical economics – and ask, first, do such views hang together empirically, and, second, what kinds of people support them. (For items and rationales see Table 1, *supra*, and subsequent text.) To score high on economism, it is not enough that respondents hold a coherent neoclassical perspective on economic affairs. In addition, they must sharply decouple economic beliefs from values (e.g., sacredness or justice) associated with other institutional domains.

Because the *homo economicus* index is based on responses to all seven constituent items, we impute “don’t know” responses as midpoints on the variable scale.⁷ Each response is normalized on a scale with mean 0 and standard deviation 1, and the responses are averaged. Thus this analysis replicates the assumptions of response identity and item fungibility common to most opinion research. (See Appendix A for details.)

We recognize that economic theory, deftly employed, can justify deviation from what we describe as economistic positions, even among professional economists trained in the neoclassical creed. Nonetheless, we contend that economism exists both as an observable discourse and a set of practices (Jelveh, Kogut and Naidu 2014) and, accordingly, view our stylized *homo economicus* as a *cultural representation* and *not* as an empirical description of either most professional economists’ beliefs or of inescapable implications of neoclassical theory.

As Figure 1 illustrates, the *homo economicus* scale is normally distributed, with only a handful of respondents exhibiting either strong support for or rejection of econo-

⁷ Respondents who refused to answer one or more items or who answered “don’t know” to three or more questions were removed from the sample.

mistic views. Examining correlations among the items that comprise the scale, however, belies the notion that this distribution is driven by individual differences in commitment to a coherent economic worldview. The scale alpha is a mere 0.325. Of twenty-one correlations, fewer than half are significantly positive in the predicted direction, and one is unexpectedly negative (people who support the use of markets for surrogacy also favor regulating markets on behalf of environmental protection). Even the significantly positive correlations are mostly weak, with only three exceeding 0.1.⁸

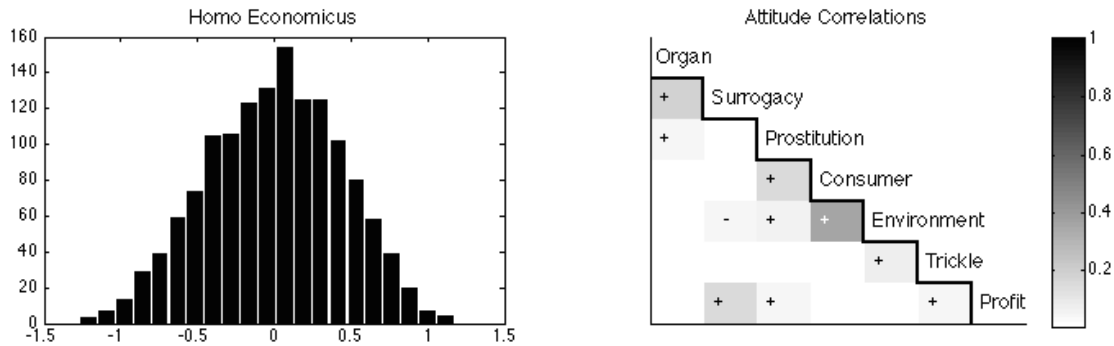


Figure 1: Full sample statistics. On the left, the distribution of the Homo Economicus scale. On the right, correlations between the seven attitudinal variables comprising the scale. Significant correlations are represented by a plus/minus sign, indicating correlation direction. Shades correspond to correlation strength.

Table 2 reports estimates of a multivariate model wherein the *homo economicus* scale is regressed on a set of sociodemographic variables. Variance explained (10.1%) is modest at best. Of the variables related to access to market rewards only one, gender, is significant, with schooling and economic success unrelated to economic worldview.⁹ Women, as expected, are less likely to endorse economic views, but only by 0.15 of a standard deviation. Evangelicals are less economic, and Republicans are more economic, than mainline Protestants or Democrats, respectively. Of the remaining variables

⁸ These three are correlations between opposition to consumer regulation and anti-environmentalism (0.375), between support for paid surrogacy and support for organ markets (0.188), and between opposition to consumer regulation and tolerance for prostitution (0.158).

⁹ Analyses with more detailed occupational categories do not increase the variance explained.

only parenthood is significantly associated with economism. Analyses of individual items comprising the scale (available upon request) suggest that the items are not fungible (e.g. women object to prostitution, whereas African-Americans oppose surrogacy). Overall, these results provide little direction to the search for the social coordinates of *homo*

Table 1: Multivariate model of the Homo Economicus scale

| | Homo Economicus | |
|----------------------------|-----------------|---------|
| Education | 0.002 | (0.31) |
| Log Income | 0.020 | (1.20) |
| White-Collar | 0.052 | (1.75) |
| Religious Attendance | -0.006 | (-1.20) |
| Catholic | -0.063 | (-1.79) |
| Evangelical | -0.110** | (-3.08) |
| Non-Christian | -0.013 | (-0.27) |
| Female | -0.150*** | (-5.47) |
| Black | -0.045 | (-0.97) |
| Age | -0.001 | (-1.23) |
| Conservatism | -0.004 | (-0.42) |
| Republican Partisanship | 0.033*** | (4.50) |
| Log Community Size | -0.003 | (-0.40) |
| West | 0.064 | (1.71) |
| South | 0.035 | (1.03) |
| North East | 0.014 | (0.35) |
| Married | 0.002 | (0.06) |
| No. of Children | -0.020* | (-2.32) |
| Immigrant | -0.088 | (-1.72) |
| Constant | 0.043 | (0.24) |
| <i>N</i> | 1133 | |
| <i>R</i> ² | 0.101 | |
| adj. <i>R</i> ² | 0.086 | |

t statistics in parentheses
 * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

economicus. The trail leads to childless, Republican men, but varying and sometimes contradictory results for specific items suggest that we may have pursued a chimera.

Shall we conclude that Americans' attitudes toward the market are largely unstructured? Not so fast. The weak effects reported above reflect not absence of structure but rather *structural heterogeneity* underlying Americans' economic orientations. Only by identifying subsets of respondents who construe the market in distinctive ways can we detect the underlying structure.

Results, pt. 2: Identifying Distinctive Construals of the Market

We have seen that GSS respondents did not, as a group, construct the field of normative economic opinion along lines defined by support for or opposition to neoclassical orthodoxy. Before interpreting these results as evidence of a *lack of structure*, we ask if they may instead reflect population heterogeneity, with different respondents constructing the field of affinities and oppositions among attitudes toward markets in different ways.

Note that people may construe the market similarly but still take opposing normative positions on such matters as profit-seeking, paid surrogacy, or trickle-down economics. For example, in *The Shock Doctrine*, author/activist Naomi Klein (2007) excoriates Milton Friedman and neoclassical economics. Klein and Friedman (Friedman and Friedman 1980) share a *construal* of markets as arenas of unfettered exchange motivated by self-interest. But whereas Friedman sees unregulated markets as liberating, Klein interprets them as inherently destructive.

Thus we require an analytic method that can identify subsets of respondents who exhibit distinctive *patterns of association* among their opinions, without necessarily holding the same views. We use Relational Class Analysis (RCA) (Goldberg 2011).¹⁰ RCA generates a proximity matrix among respondents wherein each cell value represents the extent to which the row and column respondents exhibit similar patterns of *difference between pairs of item responses*. RCA then partitions the network into subsets, each of which corresponds to a distinctive construction of an opinion domain. In this analysis, each such subset embodies a different construal of the market domain.

¹⁰ Although less than five years old, RCA has already been used to study musical taste (Goldberg 2011), corporate communications strategies (Miranda, Summers and Kim 2012), political attitudes in the U.S. (Baldassarri and Goldberg 2014), European Union (Fazekas 2012), and China (Wu 2014), and asset managers' attitudes toward risk (Rook 2014). See Goldberg (2011) and Appendix B for more detailed accounts.

The intuition behind RCA is illustrated in Figure 2 (for more details about the method, see Appendix B). Imagine a survey that includes three questions of interest. The top row of Figure 1 plots the responses of four hypothetical respondents to these questions. The bottom row plots each respondent's pattern of difference between responses, represented as a matrix of size 3x3. Matrix cells are color coded, ranging from minimal difference (white) to maximal difference (black). We refer to this as the association matrix. As is clearly visible, despite their different opinions the first three respondents' association matrices are very similar to one another. The fourth respondent, in contrast, exhibits a distinct pattern of associations. These association matrices represent the relationships of entailment and opposition that are implicit in each respondent's responses. They correspond to these respondents' construals.

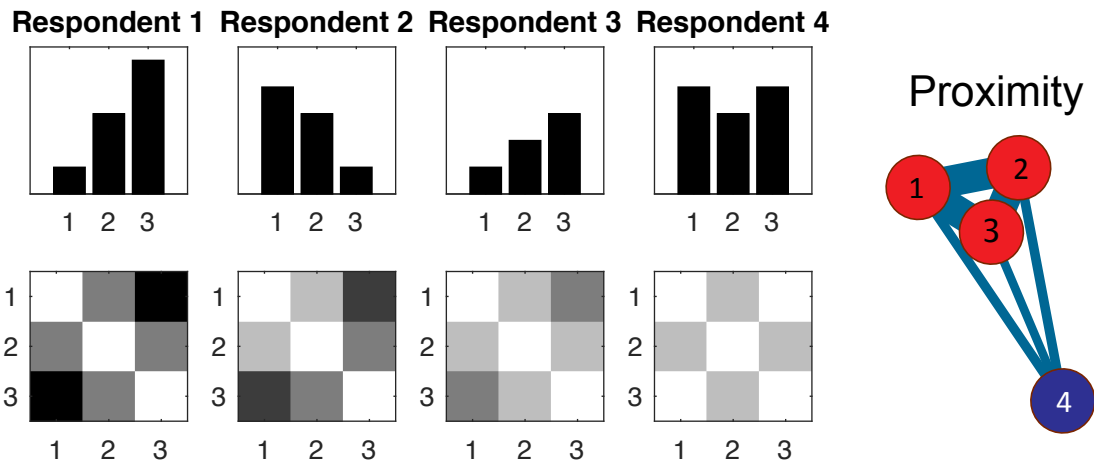


Figure 2: Illustration of four hypothetical respondents. The top row illustrates their responses, and the bottom row their resultant association matrices. The network on the right illustrates the proximities between these association matrices. Edge widths correspond to degree of proximity.

RCA constructs a proximity matrix between respondents by calculating the distances between their association matrices. This distance corresponds to the cell-by-cell difference between each pair's respective association matrices. The first three respondents are determined to be proximal to one another, whereas the fourth is distant

from the other three. These distances are illustrated as a network in Figure 2. The network partitioning algorithm concludes that these two sets of respondents comprise different subgroups—as illustrated by different node colors—in essence prescribing two different construals. Note that the first two respondents espouse diametrically opposed positions. Their construals, however, as reflected in their similar association matrices, are effectively identical.

Following this logic, we used RCA to divide the sample into subsets (*relational classes*) of respondents.¹¹ We then conducted principal component analyses (details available upon request) separately for each class, identifying a single dominant factor (by the eigenvalue criterion) in each case. This dominant component represents the underlying axis of attitudinal variability for each set of respondents. Based on these results, we created a scale for each class by summing the seven items (each standardized to a mean of 0 and a standard deviation of 1, and weighted by factor loadings). As we shall demonstrate, each such scale measures respondents' commitment to the economic marketplace as represented by the dominant construal of the market for that respondent class.

We find that economic opinion is structured by three different construals of the market domain. We employed a new method, developed for this paper, to validate the three-class solution, using Monte Carlo simulation and the gap statistic to evaluate goodness of fit. (See Appendix B for details.) Figure 2 illustrates the correlations between

¹¹ We use the term “class” in talking about these respondent subsets in the same sense as users of Latent Class Analysis: as categories of persons identified as sharing a particular pattern of responses to survey items, with no intended analogy to “social class” in either the Marxian or Weberian sense. We do not assume that persons in a relational class share a common identity. Although in particular instances (where construals of a domain are structured by such institutions as political parties or faith communities) such self-awareness is possible, we suspect such cases are rare. In particular, our use of the phrase “relational class analysis” is unrelated to that of Wright (1997), who employs it to contrast his approach to “gradational class analysis.”

economic attitudes in these three groups. As is clearly visible, these correlations are, on average, substantially stronger and more statistically significant than they were in the full sample (with the median absolute value of correlations of 0.324, 0.128, and 0.213, respectively, as opposed to 0.066 for the full sample). Moreover, the structure of associations between economic attitudes in each class is unique.

In the first group, to which 20.5 percent of respondents are assigned, five core variables are correlated with one another, with organ trading only associated with one of these and trickle-down correlated with none. Those who express economistic opinions on any one of the five core attitudes (acceptance of profiteering;¹² acceptance of paid surrogacy and prostitution; and opposition to consumer or environmental regulation) tend to

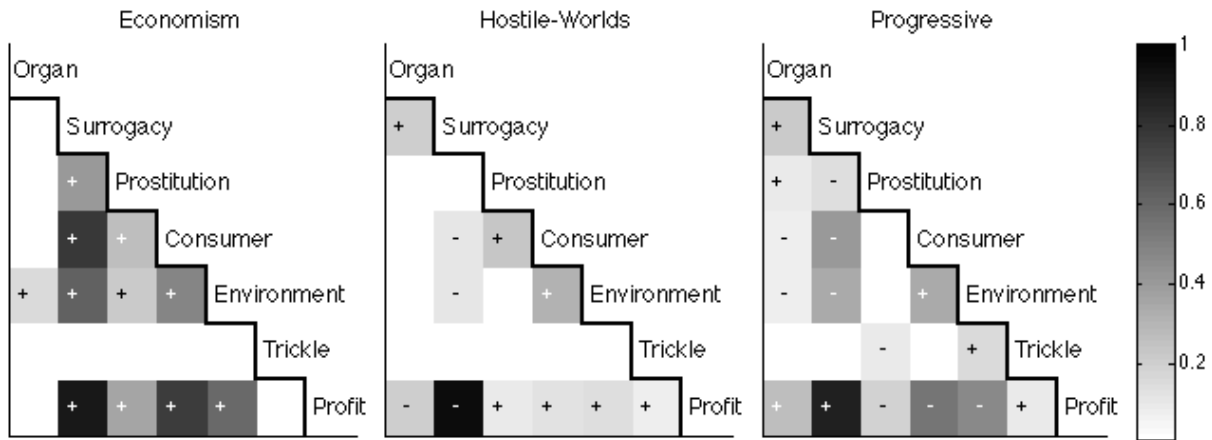


Figure 3: Attitude correlations in each of the groups produced by RCA. Significant correlations are represented by a plus/minus sign, indicating correlation direction. Shades correspond to correlation strength.

exhibit economistic views on the others, and those who express anti-market views tend to do so consistently across all core attitudes. This class’s opinions are structured most

¹² We use the term “profiteering” (shortening it to “profit” in figures) because we need a mnemonic shorthand to refer to this item. But we do so without the negative connotations usually associated with this term. Indeed, we were surprised that so many respondents objected to conventional practice under weak price competition.

similarly to the stylized *homo economicus* scale employed to analyze the full sample. We refer to it as the *economistic* class.¹³

The two other groups depart from pure economism in different ways. The construal of the second class, to which 39.1 percent of the sample are assigned, revolves around views of commodifying bodily goods (organs and childbearing) and attitudes towards consumer regulation, environmental regulation and profiteering. Those in this class who espouse economistic views on the latter would place bodily goods outside the purview of the market, whereas those willing to use markets to exchange such goods tend also to support regulation and object to profiteering.¹⁴ Following Zelizer's (2005) characterization of the view that sacred spaces are founded on social solidarity and sentiment and therefore stand to be corrupted by market exchange, we refer to this construal as *hostile worlds*. It appears that for this set of respondents the religious domain penetrates the economic, constraining the full expression of economistic values.

The attitudes of the third and (by a hair) largest class of respondents (40.1 percent) appear to be structured by an opposition between pro-market orientations and restrictive approaches to consumer and environment regulation. Members of this class who support the commodification of bodily goods and accept profiteering also believe that government should enhance consumer regulation, protect the environment, and, to a lesser extent, ban prostitution. They appear to embrace a secular *progressive* construal. While supporting the rational pursuit of self-interest and denying the sanctity of human

¹³ Note that our class labels refer to opinion at the pro-market end of the scale specific to each class, even though the class itself includes people strongly supportive of and strongly opposed to markets as so construed. Although this terminology is potentially confusing (as it identifies the class as a whole with only one end of the spectrum), parsimony recommends it over the alternative (e.g., calling the economistic class the "economism vs. anti-economism class").

¹⁴ Attitudes toward prostitution in this group appear anomalous in that they are uncorrelated with views of organ sales or paid surrogacy, and respondents who condone prostitution tend to condone profiteering and oppose consumer regulation. For these respondents, trade in sexual intimacy appears to lie outside the sphere of the sacred..

goods, they also agree that the state in market economics must protect citizens from exploitation and market failures, and they have faith in government's capacity to do so. These respondents, it appears, have learned the lessons of Speenhamland (Polanyi 1944), that markets cannot self-regulate but instead require political intervention to tame negative externalities. At the other end of this spectrum are those who appear distrustful of government, indifferent to the environment and largely hostile to market institutions.

Separate principal component analyses of the seven items for each class produced scales reflecting the configuration of pro- and anti-market sentiment given the dominant market construal in each class. Figure 3 illustrates the distribution of respondents in each class on its own scale (blue bars), while showing as well the distribution for members of the other two classes (white bars). Each scale is very strongly bimodal for members of its native class, but follows a bell curve distribution amongst respondents in other groups. This shows that RCA has worked as intended to identify classes of respondents among whom opinion is polarized along a unique dimension captured by its corresponding scale.

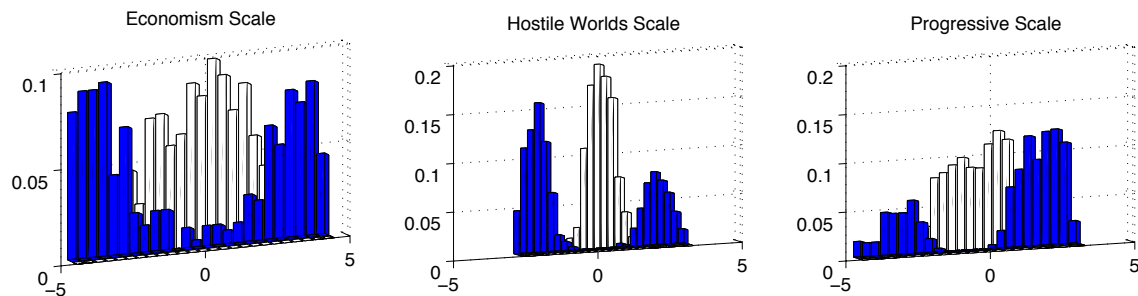


Figure 4: Distributions of scales produced for each class based on principal component analyses. Blue bars correspond to the distribution in the respective RCA group, and white bars to the distribution in the remainder of the sample.

The class whose views are defined by the economism scale is most evenly split between advocates and detractors of the market (as members construe it). Note that respondents who rank high on that scale hew closely to our stylized model of neoclassical *homines economici*, marking fewer than one in ten Americans (in 1996) as consistent

free-market conservatives. By contrast, looking at those below the mean, 11 percent were antagonistic to the market on nearly every dimension.

The pro-market wing of the hostile-worlds class (14.3 percent), support a morally conservative market from which sharp boundaries exclude traffic in bodily goods. At the opposite end of this scale, a larger number (24.7 percent of all respondents) are social liberals, restrained in their enthusiasm for the market but opposed to moral regulation.

Finally, the class whose views are captured by the progressive scale skews strongly pro-market, with 29.3 percent taking the view, shared by many mainstream economists, that markets works well, but require regulation of negative externalities. By contrast their nihilistic counterparts constitute just 11 percent of the sample as a whole.¹⁵

To summarize: Whereas, in the full sample, relations among items were weak, once we used RCA to partition the sample into three classes of respondents, each with its own construal of the market, much more structure was evident. Within each class, the first principal component defines a scale that measures pro-market sentiment. But each scale captures *a different kind* of pro-market orientation. In the economic group, this orientation is largely consonant with neoclassical orthodoxy. In the hostile-worlds group, it exempts the human body as sacred and threatened by economic pollution. And in the

¹⁵ We have argued that the scale associated with each class represents a different construal of market society, but that the positive and negative poles of each scale represent, respectively, different flavors of pro- and anti-market normative views. If so, within each class, the native scale should be correlated positively with respondents' overall opinion of the American economic system. The GSS asked respondents their view of the "American economic system," requiring a choice among four responses ranging from "needs to be replaced" (the most negative) to "the best possible" (the most positive). We did not include the item in our initial analyses because it seemed like an ambiguous test of attitudes toward the market. (A liberal might have downgraded the U.S. system for too much inequality, whereas a conservative might have objected to too much regulation.) But we believe the item suffices to provide external validation of our interpretation of the scales. Indeed, high positions on each class's scale are related to more favorable views of the economic system, with standard deviation differences boosting the odds ratio of a one-point increase in the scale (based on an ordered logistic regression) by between 24 percent (for the hostile worlders) to 42 percent (for progressives). The anti-market poll of the progressive construal set were most likely to argue that the American economic system "needs to be replaced" and least likely to agree that it is "the best possible" system.

progressive view, it takes markets to be delicate projects requiring regulatory remedies for predictable market failures.

Results, pt. 3: Social Coordinates of Normative Positions on the Market

What are the social bases of pro-market positions in the three construal classes? We begin by replicating the straightforward analysis reported in Table 2. Rather than modeling the homo-economicus scale in the sample as a whole, however, we model the three pro-market scales (induced using RCA, as described above) in their respective classes - (see Appendix C, Table A1). Given the bimodality of these three scales, we use OLS simply to compare model fit and variance explained, which rises from 10.1 percent for the full sample (Table 2) to between 12.4 and 25.2 percent of the variance in the subclass scales, using the same socio-demographic predictors. We separately modeled pro-market attitudes over the sample as a whole, where the dependent variable is the respondent's location on the pro-market scale native to the class into which she or he was assigned and each independent variable interacted with RCA class dummies (with the Economism class omitted), to account for variability in the relationship between independent variables and scales across the different construals. The amount of variance explained by this model (available upon request) was 24.6, and the adjusted- R^2 is 20.5 (more than twice the adjusted- R^2 of 8.6 in the full-sample model assuming population homogeneity). In other words, the subclasses of respondents revealed by RCA exhibit markedly more structured attitudes than does the sample as a whole.

Given the bimodality in the class-specific pro/anti-market attitude scales (Fig. 3), it is more appropriate to divide each class into subsets who espouse pro- and anti-market positions respectively and to use multinomial logistic regressions to estimate the effects

of sociodemographic attributes on attitudes toward the market within each class. We divide scales into “pro” and “anti” factions at their midpoint, and weight observations by respondents’ magnitude of market support or opposition (measured as the absolute distance of respondents from the midpoint of their respective class scales), in order to account for variability in attitude strength. As is customary, we report exponentiated coefficients, which are interpretable in this analysis as risk ratios of assignment to a pro-market subclass relative to an anti-market subclass.

We hypothesized earlier that faith in markets is a product of access to market rewards and socialization. Figure 4 plots the risk ratios of assignment to the pro-market subclass within each construal, as opposed to its anti-market counterpart. Variables included in the model are the same as those in Table 2, but only effects of theoretically salient variables are displayed on Figure 4.

Consistent with expectations, greater access to market rewards and higher levels of formal education (which entails socialization into dominant economic attitudes) independently predict pro-market orientations, largely irrespective of construal. Income is significantly related to pro-market views for all three construal classes; and education significantly predicts pro-market attitudes for the economic and progressive classes. Also as predicted, women are significantly *less* likely than men to express pro-market attitudes (within the economic and hostile-worlds construals); and African Americans are less likely to endorse pro-market views (in all but the hostile-worlds class). Two of the three parameters that fail to operate as hypothesized reflect the religious inflection of the hostile-worlds construal, which may resonate less with the highly educated and more

with African-Americans, who are overrepresented in conservative faith traditions.¹⁶ In the third case, gender effects on pro-market views in the progressive class are not quite statistically significant, but women in that class are significantly more inclined than men to express anti-market positions (with $p=0.014$, one-tailed).

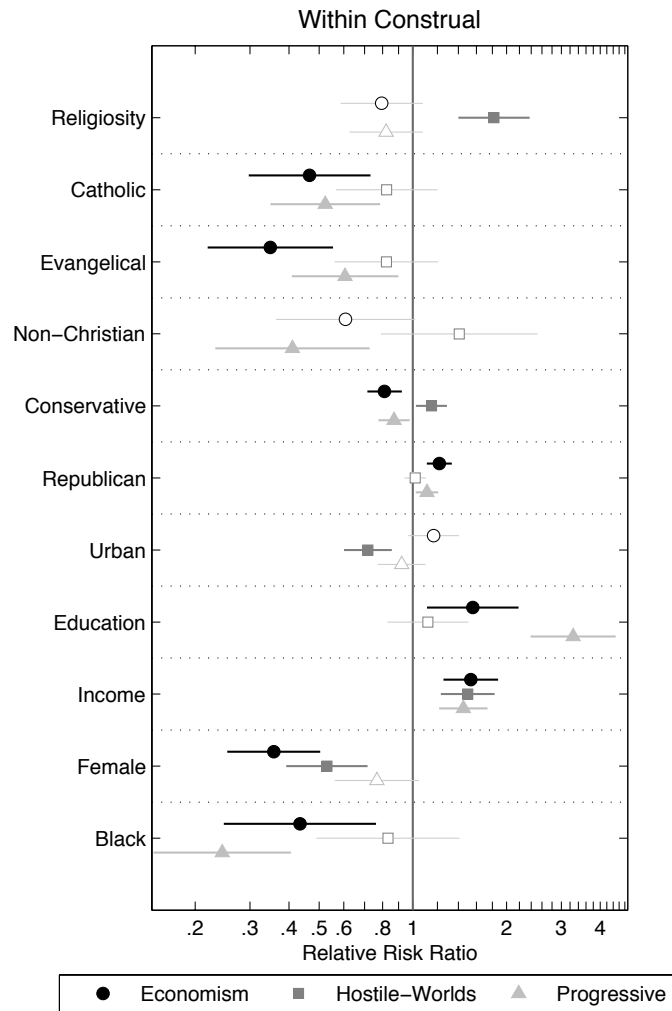


Figure 5: Risk ratios and 95% confidence intervals of being assigned to one of the three pro-market subclasses (color coded shapes), relative to assignment into their respective anti-market subclasses, as a function of a one unit increase in sociodemographic variables (y-axis). Light lines with empty shapes represent ratios that are insignificantly different from 1. The x-axis is logarithmically scaled.

Despite these consistencies, some variables shape attitudes only for respondents

¹⁶ Due to small numbers, we include African-Americans with mainline Protestants and other Christians (as distinct from Catholics and white Evangelicals) in the omitted faith category, so that race effects are likely to incorporate some religious effects for African-Americans respondents.

who construe markets in particular ways; and, indeed, these construal-specific relationships account for much of the greater explanatory power of these models relative to the full-sample model. Religious views are critical in some but not all construals. For example, church attendance strongly predicts pro-market positions in the hostile-worlds class (where the exclusion of trade in bodily goods renders the market palatable to persons of faith), but not in the other classes. Catholics and Evangelicals are more hostile to markets than others *except* in the hostile-world class, where this antipathy disappears.

Political and ideological identities play a likewise significant role. Consistent with research demonstrating that moral views drove conservative self-definition by the 1990s (Hout 1999), conservatism was associated with pro-market positions in the hostile-worlds class, but with anti-market views for other construals. By contrast, Republican partisanship predicted pro-market opinions in every class *except* hostile worlds.

Figure 5 enables us to look more closely at construal-specific effects of religiosity and political identities, illustrating graphically relationships between church attendance, conservatism, and Republican partisanship (respectively) and espousal of each of the three pro-market construals. The figure shows marginal effects associated with increments in each predictor's values on the probability of assignment into each of the pro-market subclasses, estimated using multinomial logistic models with the full set of

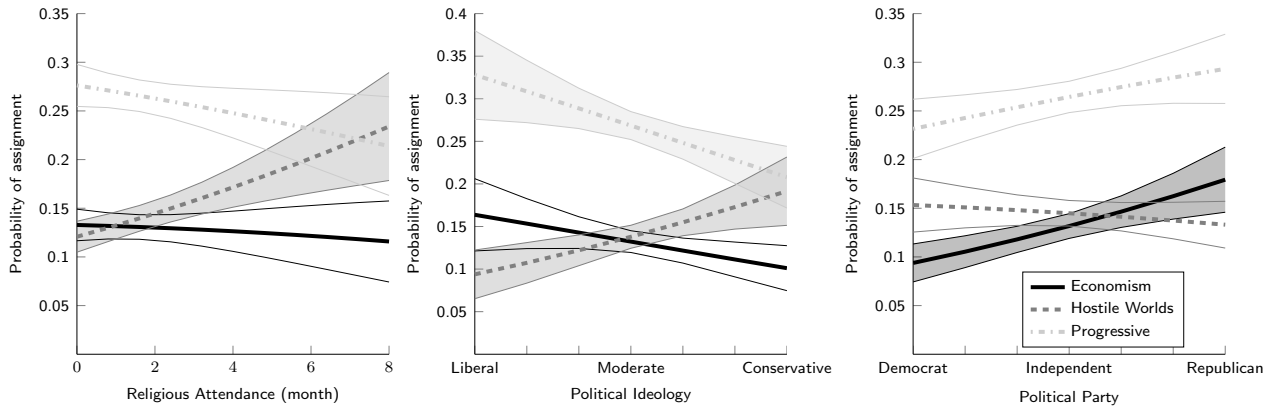


Figure 6: Marginal effects of Religious Attendance, Political Ideology and Political Partisanship on the probability of assignment into the three pro-market subclasses, as estimated by a multinomial logistic model. Thick lines correspond to main effects (and are color coded and styled by subclass), and thin lines outline 95% confidence intervals. Intervals are shaded when the effect is statistically significant.

independent variables. (Main effects are plotted with thick lines; confidence intervals are indicated with thin lines and shaded only when effects are statistically significant.)

Religious attendance has a strong positive effect on pro-market views for the hostile-worlds construal, nearly doubling the probability of espousing pro-market views for these respondents. By contrast, it has no effect on pro-market attitudes in other construals. Political identities matter as well, with conservatives more likely to adopt pro-market hostile-worlds positions, and liberals inclined toward pro-market progressive views. Republican partisanship produces strongly significant marginal increases in economism, but not in other types of pro-market positions. These patterns reinforce our interpretation that the hostile-worlds and progressive construals reflect porous boundaries between the economic domain and the domains of religion and politics, respectively.

Taken together, these results tell a consistent story: People who benefit from access to the market are more likely to express faith in markets as a social technology. But there is more to it, because this is only the case once people adopt construals of the market consistent with their religious and political identities. Those who benefit from

markets have more faith in markets; but their religious and political faiths shapes their understandings of the markets they support. We examine this tendency more closely in the next and final set of analyses.

Results, pt. 4: What Kinds of People Gravitate to Which Construals?

Privilege and socialization explain who is more likely to support the market. But among those who endorse the market, what explains which construal they adopt? We implemented an additional set of multinomial logistic regressions to predict assignment into subclass among respondents expressing pro-market views, as always with the full set of controls. Results are reported in Figure 6 below, with exponentiated coefficients interpreted once again as relative risk ratios.¹⁷ Whereas in the previous section we asked about the effects of sociodemographic attributes and religious and political identities on attitudes toward markets within construal sets, in this section we compare all respondents who expressed pro-market views and look at the effects of attributes and identities to *which* of the pro-market construals they were assigned.

Each comparison to the right of the left hand variable represents the effect of that variable on the probability of the first as opposed to the second construal in the particular pair. For example, the first line in the pro-market panel, to the right of “religiosity,” indicates that church attendance significantly reduced the probability that a pro-market respondent would be assigned to the economism, as opposed to the hostile-worlds, construal. Put another way, *if* one is pro-market, the more one attends church, the more likely one is to construe markets as excluding traffic in bodily goods (a conclusion reinforced

¹⁷ We illustrate only a subset of the variables included in the model. Additional variables are: white collar, age, marital status, number of children, regional dummies and immigrant status. Overall, this model explains 49.8 percent of the variance, estimated using the Cragg-Uhler R^2 .

by the third line to the right of religiosity, which demonstrates that church-going pro-market respondents also prefer the hostile-worlds to the progressive construal). In fact, the odds ratio of a pro-market respondent being assigned to the hostile-worlds class increases by 52 and 62 percent, respectively, with a one-day increase in weekly religious service attendance, compared to the economistic and progressive pro-market subclasses. To complete the example, the middle line to the right of religiosity, with its empty square, demonstrates that church attendance has no effect on the relative risk of a pro-market respondent adopting the economistic as opposed to the progressive construal.

Consistent with theoretically motivated expectations, religious and political identities are crucial predictors of how pro-market respondents construe the market's boundaries. The likelihood of a pro-market respondent being assigned to the hostile-worlds construal (i.e., considering intimate goods and services outside the scope of the market) increases not only with church attendance, but also with Catholicism and political conservatism. Similarly, among pro-market respondents, Evangelicals are less likely to adopt the economistic construal, and non-Christians less likely to be assigned to progressivism.

Consistent with our contention that people do not support markets abstractly, but construct markets that their religious and political views permit them to support, access to market rewards and education play a far less pronounced role in distinguishing among these three pro-market construals than they do in differentiating pro-market from anti-market positions. Education leads pro-market respondents to gravitate towards the progressive construal (economics courses often include material on market failure and regulatory response), and pro-market men are more likely to endorse economistic than pro-

gressive construals (consistent with the dominant construction of masculinity as eschewing sentiment on behalf of utilitarian rationality). Otherwise, education, gender, income

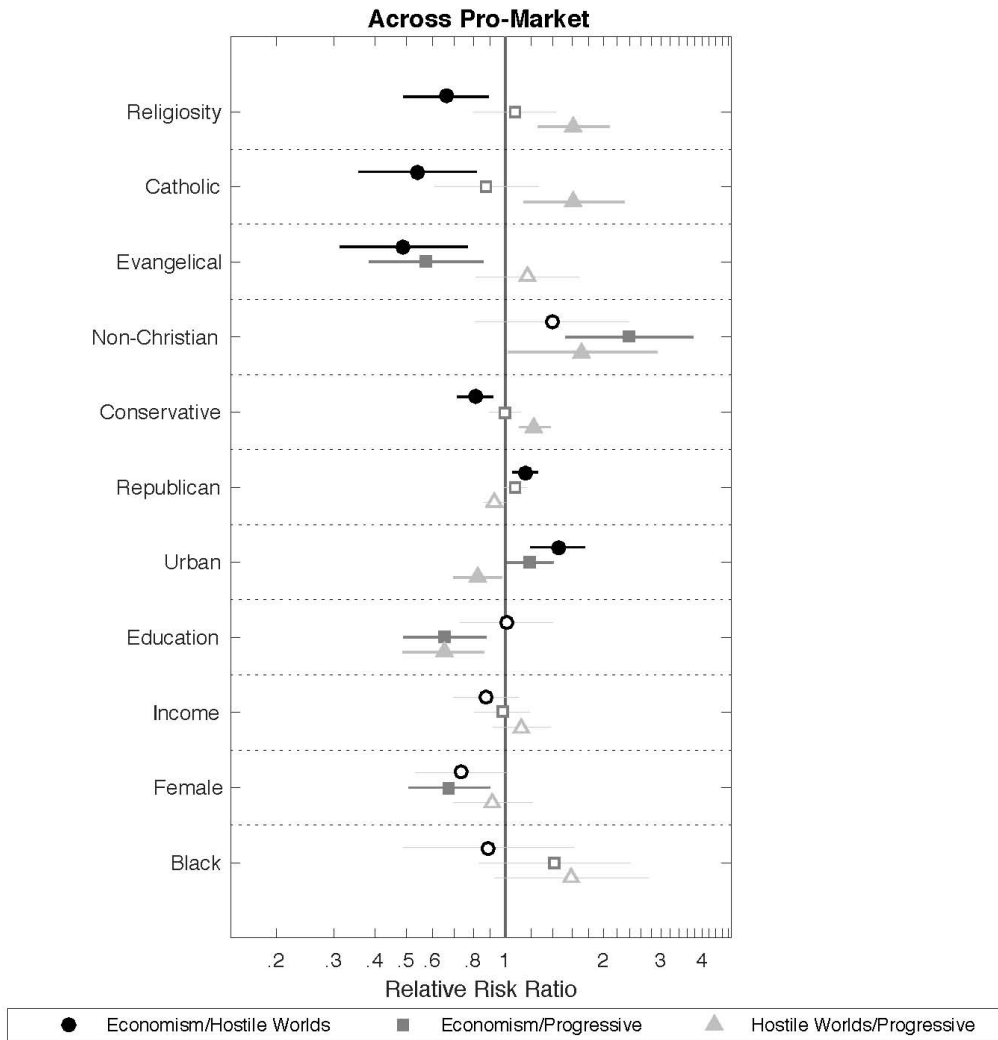


Figure 7: Risk ratios and 95% confidence intervals of being assigned to one pro-market subclass, relative to another, as a function of a one unit increase in sociodemographic variables (y-axis). Color codes and shapes correspond to different subclass pairs. Light lines with empty shapes represent ratios that are insignificantly different from 1. The x-axis is logarithmically scaled.

and race have no significant effects. Differences in pro-market construals, in other words are shaped more by religious and political orientations than by access to market rewards.

Discussion and Conclusions

This paper contributes to the literature on the social and moral constructedness of markets in several ways. First, it confirms empirically that Americans differed not only in their economic beliefs, but also in how those beliefs were organized. The conventional opposition of free-market to anti-free-market economic attitudes proved of limited value in understanding the field of popular economic opinion in the United States. Different subsets of respondents shared different ways of organizing attitudes toward the market, with each subset construing the market in a different way.

Second, our analyses describe these alternative constructions, as they were reflected in responses to attitude items, with greater specificity than has been possible heretofore. We began this paper looking for *homines economici* – respondents with consistently economic positions – and found such people to be rarer than we expected. In 1996, fewer than 10 percent of the U.S. population subscribed to a folk version of the Hayekian worldview that sees markets as efficient and morally neutral (if not superior) allocative mechanisms. This small minority consisted largely of high-income, mainline Protestant, Republican men. A roughly equal number (women, people with lower incomes, social conservatives and Democrats) appear to accept the Hayekian construal of what a market economy is, but disagree on its virtues, *opposing* the market as implacably as their counterparts support it.

Third, our results go beyond previous studies that show the effect of religious faith or political attitudes on particular economic attitudes by examining a broader set of attitudes and, more important, demonstrating that religion and ideology work, first, by affecting construals and, second and only then, by influencing attitudes. The finding that

most effects of faith and politics are conditional upon construal is a distinctive contribution of this paper.

Fourth, although we have emphasized variation in pro-market views, our research also reveals considerable discontent with or hostility toward markets. Indeed, almost as many respondents were represented in the anti-market as in the pro-market poles of their respective construals. Large minorities of respondents expressed opposition to even a basic precept of the market economy (that producers in competitive markets are not obliged to pass savings in factor costs to consumers). The fact that such strong counter-currents lay just beneath the surface of a political culture dominated by allegiance to “free markets,” suggests that many Americans are available for recruitment into populist or other anti-market social movements.¹⁸

Finally, even the majority of respondents who endorsed the pro-market poles of their respective construals for the most part rejected pure economism. To be sure, those who benefited most from markets (the wealthy and well educated) tended to support them and those with less access to their rewards (women and African-Americans) held more negative positions. But most supporters of the market engaged in some form of ideological laundering. Some would restrict markets when they impinge on the sacred, excluding exchange in goods and services like organs or maternal surrogacy that entail commodifying human bodies. For many religiously observant Americans this restriction may be what it takes to render economic conservatism and social conservatism compatible.

Others supported what Polanyi (1944) termed the “double movement” of society – the use of market institutions to produce wealth and spur innovation, but use of

¹⁸ This interpretation is rendered even more plausible by political developments since the 2008 economic crisis. Our 1996 data are also consistent with more recent evidence on attitudes toward inequality [McCall 2013], which indicates that Americans, while suspicious of government intervention, remain critical of aspects of the economic system.

government to protect society from the destructive forces that markets unleash. These respondents would shave off the market's rough edges, endorsing consumer and environmental regulation and opposing prostitution. This construal accomplishes for liberals what the hostile-worlds construal effects for social conservatives: It renders the market palatable, defining a pro-market position consistent with liberal values.

Methodologically, these results underscore the value of incorporating heterogeneity into models of attitude formation. Sociodemographic, religious, and ideological measures were associated with attitudes in different ways in the three RCA classes (even though the subsample was partitioned entirely on the basis of responses to attitude items, using no information on respondent attributes). Thus analysis of the full sample not only underestimated the degree to which economic attitudes are socially patterned, but led to misleading inferences about particular relationships.

Heterogeneity would be less of a problem if one could partition samples based on one or two key attributes. For example, if variation in construals were linked tightly to gender, we could simply conduct separate analyses for men and women and compare the results. But this is distinctly *not* the case. The three classes have similar distributions on most of the key variables: one-way analysis of variance revealed no significant difference in means for education, gender, frequency of religious attendance, or political ideology among the three subsets of respondents identified by RCA. Adoption of each construal is predicted by a unique combination of factors, with no one variable sufficiently dominant to serve as a basis for partitioning.

In sum, then, we draw three methodological lessons:

(1) Heterogeneity in construals of the market economy, as revealed by patterns of association among attitude measures, was sufficiently great that results of analysis of the full sample were misleading, failing to detect structure in the relationship between individual attributes and economic views.

(2) *Pace* Converse (1964), heterogeneity did not lie in a dichotomy between rational educated respondents with coherent belief systems and less educated or attentive respondents with disorganized attitudes. Heterogeneity in patterns of response cannot be reduced to differences among particular subgroups but appears to be produced by complex combinations of identities and life experiences.

(3) Given that heterogeneity is a problem that cannot be addressed just by dividing the sample into demographic subgroups, analysis of attitude should proceed in two steps, with identification of groups holding different construals preceding efforts to explain particular attitudes. This first step requires the use of a method like RCA to partition the sample based on observed similarities in pairwise relations among item responses.

This approach shifts the thrust of attitude research from the study of opinions to the study of construals: networks of mutually implicated attitudes that together frame and provide narrative consistency to a domain of social life. Of course, we do not believe that the seven items available to us exhaust the most important elements of construals of market society; nor, even if they did, would we equate aggregate associations with individual cognitive structures. Nonetheless, the approach employed in this paper nudges us a bit closer to the goal of using survey responses to make inferences about common patterns in the organization of social knowledge domains.

* * *

The data we analyzed were collected two decades ago. Were more recent data available, we assume that marginals for particular items would have changed, but we doubt that our main findings would differ. Faith in the market is most evident in those sectors of society that the market serves most faithfully, but the relationship is neither simple nor automatic. Instead *before Americans adopt economic attitudes congruent with their material interests, they must first construct a construal of the market consistent with their political values and religious faith.* In this way, the institutional logics of religion and politics penetrate those of economic self-interest, producing a diversity of understandings of the market and its effects.

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Appendix A: Item Wordings and Descriptive Statistics

Items comprising the homo-economicus scale:

Profit. Consider the following situation: A small factory produces tables and sells all that it can make at \$200 each. Because of changes in the price of materials, the cost of making each table has recently decreased by \$20. The factory does not lower its price for the tables. Is this acceptable or unfair?

- 1 Acceptable
- 2 Unfair
- 8 Don't know

Trickle Down. Allowing business to make good profits is the best way to improve everyone's standard of living.

- 1 Strongly agree
- 2 Agree
- 3 Neither
- 4 Disagree
- 5 Strongly disagree
- 8 Can't choose

Organ. A body organ that is much in need and that people may contribute are kidneys. Most people can live with only one kidney, though their chances of survival are better if they have two. Do you believe that people with two healthy kidneys should be permitted to sell a kidney to a hospital or organ center to use for transplants?

- 1 Definitely not
- 2 Probably not
- 3 Perhaps
- 4 Probably
- 5 Definitely

Surrogacy Recently, some married couples who are unable to have children have paid women, called "surrogate mothers," to bear a child for them. When the child is born, the couple becomes its adoptive parents and the surrogate mother receives a fee. Do you think that this practice should be permitted or forbidden under the law?

- 1 Forbid it
- 2 Permit it
- 8 Don't know

Prostitution. How much do you agree or disagree with the following statements:

There is nothing inherently wrong with prostitution, so long as the health risks can be minimized. If consenting adults agree to exchange money for sex, that is their business

- 1 Agree strongly
- 2 Agree somewhat
- 3 Disagree somewhat
- 4 Disagree strongly
- 8 Don't know

Environment. How much do you agree or disagree with the following statements:

Natural environments that support scarce or endangered species should be left alone, no matter how great the economic benefits to your community from developing them commercially might be.

- 1 Agree strongly
- 2 Agree somewhat
- 3 Disagree somewhat
- 4 Disagree strongly
- 8 Don't know

Consumer. How much do you agree or disagree with the following statements:

It is the responsibility of government to require businesses to provide consumers with the information they need to make informed choices.

- 1 Agree strongly
- 2 Agree somewhat
- 3 Disagree somewhat
- 4 Disagree strongly
- 8 Don't know

For the purpose of the RCA analysis, we transformed “don't know” responses (where applicable) into mid-scale responses. Respondents who provided 3 or more “don't know” responses, or at least one missing response, were excluded from the analysis.

Additional variables:

Education: highest year of schooling, ranging from 1 to 20

Income: self-reported total family income, log transformed

White collar: occupation is classified as either managerial, health professional & engineers, teachers and social scientists, technical, sales, and administrative support, by the census bureau's two-digit classification

Gender: male=0, female=1

Black: Non-African American=0, African American = 1

Religiosity: frequency of religious service attendance, per week

Religious denomination: Catholic, Evangelical, Mainline Protestant (including Black Protestants and non-denominational Christians), Non-Christian

Political Ideology: self identification on a 7-point scale ranging from strong liberal to strong conservative

Party: partisan self-identification on a 7-point scale ranging from strong Democrat to strong Republican

Community size: population of place of residence, log transformed

Region: West, South, Northeast, Midwest

Age: in years

Married: is respondent currently married

Childs: number of children, ranging from 0 to 8 or more.

Immigrant: respondent born outside the U.S.

| Variable | Mean | Std. Dev. |
|---------------------|-------------|------------------|
| Education | 13.33542 | 2.947183 |
| Logged Income | 10.27784 | .9544364 |
| White Collar | .5602787 | .4965262 |
| Gender | .552632 | .4973945 |
| Black | .1391967 | .3462716 |
| Religiosity | .4431465 | .5587801 |
| Mainline Protestant | .2963989 | .4568272 |
| Catholic | .2389197 | .4265713 |
| Evangelical | .2527701 | .4347508 |
| Non-Christian | .0914127 | .288295 |
| Political Ideology | 4.225901 | 1.352369 |
| Party | .2834037 | .4508092 |
| Community Size | 3.532967 | 2.141256 |
| West | .2160665 | .4117027 |
| South | .3531856 | .4781253 |
| Northeast | .1932133 | .3949556 |
| Midwest | .2375346 | .4257199 |
| Age | 44.74636 | 17.05602 |
| Married | .4903047 | .5000792 |
| Children | 1.841922 | 1.743703 |
| Immigrant | .0768698 | .266477 |

Appendix B: RCA procedure and statistical significance

A useful way to understand the analytical purchase that RCA affords is to compare it to other latent variable models. Some such models reduce *item* dimensionality: Factor analysis reduces a set of variables onto a smaller set of factors. Other such models reduce *respondent* dimensionality by placing respondents in different groups. Latent class models divide sets of observations into subgroups such that variables are uncorrelated within each subgroup. RCA, by contrast, simultaneously reduces inter-item and inter-respondent variability. Like latent class analysis (LCA), it divides a population into subgroups, and like factor analysis, each subgroup is identified by a reduction of the set of variables onto a smaller number of factors. Note, however, that because the input to RCA is a distance matrix based on the difference of differences matrix, RCA solutions cannot be recovered by LCA or *vice versa*.¹⁹

RCA measures schematic similarity between respondents using a metric called *relationality*. Relationality measures the extent to which two respondents' responses follow the same pattern. It does so by calculating the relative difference between all pairs of responses provided by each respondent, and then averaging the difference in differences across the two respondents. Like the Pearson correlation coefficient, relationality is bounded by -1 and +1. Pairs of respondents with high absolute relationality (namely, with values close to 1 or -1) are said to be schematically similar.

The overall schematic similarity between respondents can be represented as a weighted network. RCA calculates relationality between all pairs of respondents to generate such a network, and removes edges with insignificant relationality. A spectral network-partitioning algorithm (Newman 2006) is used to partition the network into groups of schematically similar respondents. The algorithm partitions the network by maximizing a property known as modularity

¹⁹ For a fuller explanation of the difference between RCA and Latent Class Analysis, including comparison of results from parallel analyses, see Goldberg 2011, App. C (online at <http://www.jstor.org/stable/full/10.1086/657976#apc>).

(see Newman and Girvan [2004] for details). The algorithm follows an iterative procedure whereby classes are recursively partitioned until modularity cannot be maximized further.

Initially, the RCA procedure partitioned the dataset into five classes. Because the modularity maximization procedure only stops when modularity cannot be maximized any further, it may include steps that only contribute marginally to modularity, and therefore do not produce a meaningful partition. The last two steps of the partitioning algorithm contributed only modestly to overall modularity, increasing it by 9.5% and 1.5%, respectively. Our subjective examination of these two classes suggested that they were not substantively distinguishable. We therefore decided to reverse these last two steps and stop the procedure with a tri-partite partition.

Until now, there has been no statistical method for assessing the optimal number of classes. This appendix presents such a procedure and uses it to evaluate the model presented in this paper.

We produced a set of Monte-Carlo simulations to generate random null distributions of data. We used those to calculate:

1. The expected modularity at random. If the modularity produced by our tri-partite partition is significantly greater than that expected at random, we could determine that the RCA classes we have produced indeed represent a meaningful partition.
2. Using a method known as the gap statistic (Tibshirani, Walther and Hastie 2001, see below), we estimate the optimal number of classes.

The Monte-Carlo simulations generate a set of randomly drawn datasets that are identical in size to the original dataset, and which are used to obtain a reference null distribution (in expectation, these dataset should not naturally partition into classes). We generated these datasets by permuting the rows of the original dataset such that each observation retained the same distribution of attitudes, but these attitudes were randomly assigned to variables. In other words, each “respondent” in our simulated datasets is equally opinionated as the original respondent, but these

opinions are applied to random items. Because we constrain the simulated datasets to adhere to observed distributional properties, the statistical estimates we obtain are highly conservative.

We generated 1,000 simulated datasets, and applied the RCA procedure to partition each into classes of schematically similar respondents. On average, RCA identified 7.32 classes, ranging from 5 to 10. The mean modularity for these simulated partitions was 0.2960, with a standard deviation of 0.0083. At 0.4168, the observed modularity is significantly greater than the null distribution at $p=0$ (a one-sample t-test statistic of -462.82). In other words, the observed data present a significantly greater level of clustering than would be expected at random, even while constraining the data to adhere to respondents' opinion distributions.

Next, we use the gap statistic to estimate the goodness of fit of our three-class partition. The gap statistic computes partition compactness, W_k , for a partition into k classes, which equals the normalized sum of distances between observations in each class. Formally:

$$W_k = \sum_{r=1}^k \frac{1}{2n_r} D_r$$

where k is the number of classes, n_r is the size of class r , and D_r is the sum of pairwise distances between observations in r . We use one minus relationality as the distance between two observations. The gap statistic method compares the observed compactness to that obtained from the null reference distribution:

$$Gap_n(k) = E_n^*\{\log(W_k)\} - \log(W_k)$$

where E_n^* denotes expectation under a sample size n . The optimal number of classes is the smallest k that satisfies:

$$Gap(k) \geq Gap(k + 1) - s_{k+1}$$

where s_{k+1} is the simulation standard error (see Tibshirani et al. [2001] for more details). As illustrated in Figure A1, this condition is satisfied only for $k=3$.

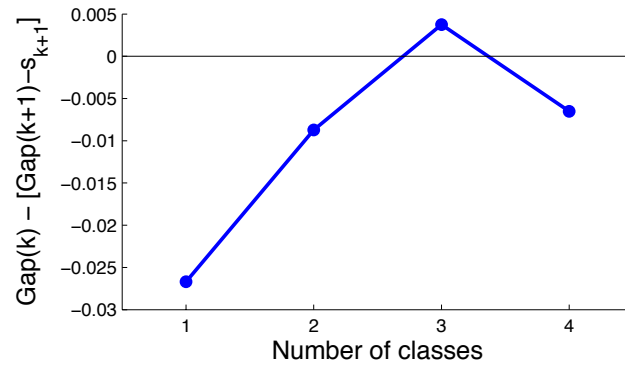


Figure A1: Gap statistic for number of clusters produced by RCA

Thus the gap statistic confirms the statistical validity of our substantively motivated decision that a three-class partition best fits the data.

Appendix C: Multivariate Analyses of Relational Class Scales

Table A1: Multivariate models of pro-market scales in their respective classes

| | Economism | | Hostile Worlds | | Progressive | |
|---------------------|----------------------|---------|----------------------|---------|-----------------------|---------|
| Education | 0.159 | (1.79) | -0.000 | (-0.00) | 0.183 ^{***} | (4.24) |
| log(Income) | 0.206 | (0.83) | 0.355 ^{**} | (2.84) | 0.432 ^{***} | (3.48) |
| White-Collar | 0.696 | (1.46) | 0.191 | (0.85) | -0.394 | (-1.75) |
| Church Attendance | -0.051 | (-0.61) | 0.111 ^{**} | (2.68) | -0.043 | (-1.07) |
| Catholic | -1.146 | (-1.84) | -0.209 | (-0.81) | -0.585 [*] | (-2.25) |
| Evangelical | -1.487 [*] | (-2.43) | -0.188 | (-0.70) | -0.206 | (-0.80) |
| Jew/Other | -0.541 | (-0.78) | 0.250 | (0.61) | -0.626 | (-1.65) |
| Female | -1.343 ^{**} | (-3.04) | -0.505 [*] | (-2.42) | -0.026 | (-0.13) |
| Black | -1.145 | (-1.54) | -0.101 | (-0.29) | -1.303 ^{***} | (-3.62) |
| Age | -0.016 | (-1.20) | 0.014 [*] | (2.08) | -0.021 ^{**} | (-3.01) |
| Conservatism | -0.149 | (-0.89) | 0.099 | (1.28) | -0.217 ^{**} | (-2.73) |
| Republicanism | 0.282 [*] | (2.35) | 0.023 | (0.43) | 0.092 | (1.67) |
| log(Community Size) | 0.175 | (0.69) | -0.219 | (-1.82) | 0.006 | (0.05) |
| West | 1.151 | (1.89) | 0.664 [*] | (2.38) | -0.129 | (-0.47) |
| South | 0.783 | (1.46) | -0.010 | (-0.04) | -0.208 | (-0.82) |
| North East | 0.940 | (1.47) | -0.115 | (-0.37) | -0.087 | (-0.30) |
| Married | -0.442 | (-0.94) | -0.143 | (-0.64) | -0.055 | (-0.25) |
| Children | 0.041 | (0.31) | -0.043 | (-0.67) | -0.176 [*] | (-2.54) |
| Immigrant | -0.941 | (-1.27) | -0.153 | (-0.40) | -0.577 | (-1.39) |
| Constant | -1.712 | (-0.58) | -4.356 ^{**} | (-3.12) | -3.401 [*] | (-2.52) |
| N | 228 | | 447 | | 458 | |
| R ² | 0.236 | | 0.124 | | 0.252 | |

t statistics in parentheses

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$