A Welfarist Role for Nonwelfarist Rules: An Example with Envy

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Abstract

I propose and formalize an argument for why economists working in the welfarist normative tradition should include nonwelfarist principles in how they judge economic policy. The key idea behind this argument is that the world is too complex, and our ability to model it too limited, for us to fully trace a policy’s effects on welfare. Nonwelfarist principles can be valuable to a welfarist facing this limitation if they act as informational proxies, carrying accumulated knowledge about the effects of policy that otherwise cannot be considered. This argument can be seen both as extending a familiar logic for rule utilitarianism beyond the realm of individual ethics and as a specific version of a broader argument made for centuries by theorists from Hume to Hayek. I also provide evidence of an example in which real-world policy judgments are consistent with this theoretical argument. Results from a novel U.S. opinion survey show that approximately half of respondents reject redistribution driven by envy even though it generates direct utilitarian gains. That share rises as the role of envy is made more salient, consistent with respondents using nonwelfarist principles to encode concerns about the unobservable consequences of policy.

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Introduction

In this paper, my first goal is to propose and formalize an argument for why economists working in the welfarist normative tradition should include nonwelfarist principles in how they judge economic policy. If accepted, this argument would have broad implications for the dominant modern approach to policy analysis.

The key idea behind this argument is that the world is too complex, and our ability to model it too limited, for us to fully trace a policy’s effects on welfare. To see why this limitation may justify the use of nonwelfarist principles, start with opposite (conventional) case in which a policy designer is able to predict a given policy’s full set of consequences or, more generally, the probability distribution across full sets of consequences. This is the setting Louis Kaplow and Steven Shavell (2001) assume, following a vast related literature, and in it they derive their well-known, important, and powerful result: namely, "any non-welfarist method of policy assessment violates the Pareto principle." The intuition behind their result is that an omniscient, welfarist policy designer will unavoidably risk sacrificing welfare by giving weight to anything other than welfare, including nonwelfarist principles, in policy assessments. In reality, however, even the most sophisticated policy designer falls far short of omniscience.

Nonwelfarist principles can be valuable to a welfarist policy designer facing this limitation if they act as informational proxies, carrying accumulated knowledge about the effects of policy that otherwise cannot be considered. In that case, ignoring nonwelfarist principles means ignoring useful information about welfare-maximizing policy design. The implication is clear: to select policies that maximize a welfarist objective, our methods of policy assessment may at times, and perhaps regularly, need to include nonwelfarist principles. Kaplow and Shavell (2001) themselves acknowledge this possibility in principle, but modern optimal tax research ignores it in practice. In fact, Liam Murphy and Thomas Nagel (2002) praise modern tax theory in the Mirrlees (1971) tradition for its purely welfarist approach.

The second goal of this paper is to provide evidence of an example in which real-world policy judgments are consistent with this theoretical argument. I focus on the tax policy response to the existence of envy, a classic area of tension for welfarism. When individuals suffer psychological losses from the economic gains of others, those gains yield less welfare to society as a whole than they do to the envied. In a welfarist framework, envy thus acts as a negative externality from economic advantage, and optimal tax policy will respond with greater redistribution.

Using a novel opinion survey, I show that the American public is skeptical of envy-based redistribution, even when its direct effect would be to increase welfare. More than half of survey respondents reject envy-based redistribution when presented with a hypothetical scenario in which its direct utilitarian appeal is made clear. Moreover, that share rises as the role of envy is made more salient, and respondents who express more support for libertarianism—a classic alternative

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1 For example, they write: "a notion of fairness might be useful for policymaking if it serves as a good proxy principle for raising utilities when direct assessment of policies cannot be undertaken."

2 See also the extensive defense of the social welfare function as a criterion for policy evaluation in Matthew Adler (2011). Adler describes (in his Chapter 4) a way in which a policy designer can extend a limited set of information. My argument suggests an alternative approach.

3 See Weinzierl (2014, 2016a, 2016b) for additional examples.

4 See Boskin and Sheshinski (1978, result 11) as well as Oswald (1995, result 18).

5 As I discuss below, public opinion thereby echoes the responses to envy-based redistribution of even staunchly welfarist scholars. For example, Kaplow (2008) is characteristically clear: "In sum, it seems difficult to articulate the actual meaning of preference censoring or to identify a convincing rationale for ignoring, as a matter of first principles, certain sorts of preferences. Nevertheless, it may be good social policy to set aside certain negative preferences, such as envy."
to welfarism—are less likely to accommodate envy’s welfare implications. These patterns are consistent with respondents using nonwelfarist principles to encode concerns about the indirect welfare consequences of policy.

One way to see the argument of this paper is as extending the reach of a logic for so-called rule utilitarianism from the realm of individual ethics to society’s policymaking decisions. Moral philosophers have long recognized that individuals, even if seeking to act so as to produce the best outcomes, must sometimes act according to rules that make no direct reference to the consequences of their actions. John Stuart Mill (1871) calls these nonwelfarist rules "secondary principles," and like many others he emphasizes their importance in achieving an underlying welfarist goal. John Harsanyi (1992) is particularly clear: "rule utilitarianism is free to choose a moral code that judges the moral value of individual actions partly in terms of nonconsequentialist criteria if use of such criteria increases social utility." The argument of this paper is that this logic for why individuals making ethical choices ought to use principles based on what Mill called "the experience of human life" applies just as well to the difficult normative judgments societies must make.

The general version of this argument—namely, that policy design ought to be influenced by principles reflecting society’s accumulated wisdom—is far from original to this paper. Most prominently, Friedrich Hayek (1973) warns that "irremediable ignorance of most of the particular facts which determine the processes of society" prevents us from anticipating "all the costs of achieving particular results" and compels us to give weight to such principles. Related observations can be found in the writings of eminent thinkers such as David Hume, Adam Smith, and Edmund Burke. Despite its empirical plausibility and intellectual pedigree, this general argument exerts essentially no influence on the modern welfarist approach to optimal policy analysis, with predictable consequences. As I and others have discussed elsewhere, and as the evidence below on the response to envy suggests, that standard approach yields policy recommendations that appear to be at odds with prevailing public priorities for policy, priorities that in turn appear to be consistent with historically prominent nonwelfarist principles. By advancing an argument for why such nonwelfarist principles may further, rather than displace, welfarist goals, this paper hopes to engage researchers who embrace the standard approach.

This paper proceeds as follows. Section 1 formalizes, in a setting based on Kaplow and Shavell (2001), how incorporating nonwelfarist principles may be optimal in the face of limits to the information society has on a policy’s consequences. Section 2 turns to an example of this argument in action, reviewing the controversial implications of envy for welfarist-optimal taxation and using new survey results to show how public opinion against envy-based redistribution appears to reflect the influence of nonwelfarist principles on policy judgments. Section 3 links this argument to the vast literature on the use of rules in individual utilitarian ethics and earlier, more general versions of this argument in the writings of prominent thinkers. Section 4 concludes.

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6 "Whatever we adopt as the fundamental principle of morality, we require subordinate principles to apply it by..." (U, II, pp. 296-297).
7 In addition to the authors noted below, the current work of Eric Nelson (2016) on the link between egalitarianism and the problem of theodicy is closely, if subtly, related to the argument of this paper.
8 Given this list of authors, it may be important to note that the logic for using nonwelfarist principles to achieve welfarist goals is not exclusively relevant to those on the political "right." On the contrary, the same logic applies for those on the political "left" whose welfarism gives priority to the worst off and whose resulting policy preferences support, among other things, progressive taxation. An empirical example, explained at length by Scheve and Stasavage (2016), is the use of Mill’s principle of Equal Sacrifice to justify the estate tax in developed economies throughout the twentieth century.
1 A formal illustration of the role for nonwelfarist rules

To provide a formal statement of this paper’s main argument, I generalize the framework in which Kaplow and Shavell (2001) analyze the conflict between welfarism and nonwelfarist principles.

1.1 Full information

Start by assuming, as in Kaplow and Shavell (2001), that the policy designer is able to predict (perhaps probabilistically) the complete set of a policy’s consequences. Let \( x \) denote a vector of length \( n \) of data characterizing the state of the world: that is, a comprehensive account of anything that might be relevant to policy judgments, including but not limited to aspects of the economic status of individuals. For simplicity, I will refer to \( x \) as the state. Let \( X \) be the set of all possible states. The function \( F : X \to \mathbb{R} \) is what I will call the social objective function and is used to make policy judgments. The function \( U_i : X \to \mathbb{R} \) gives the welfare of individual \( i \), though welfare is not directly observable. A social objective function will be called welfarist if it depends on the state \( x \) only through individual welfare levels: that is if it takes the form \( F(x) = W(U_1(x), U_2(x), ..., U_I(x)) \equiv W(U(x)) \). Assume that, for all \( i \) and \( U_i, \frac{\partial W}{\partial U_i} \geq 0 \). Note that a social objective function may depend on the state in other, i.e., nonwelfarist, ways. Define the Pareto social preference relation \( \succ_P \) over two states \( x^s, x^t \in X \) as usual: \( x^s \succ_P x^t \) iff \( U_i(x^s) \geq U_i(x^t) \) for all \( i \) and \( U_i(x^s) > U_i(x^t) \) for some \( i \).

Consider two states, \( x^1, x^2 \in X \), for which

\[
x^1 \succ_P x^2. \tag{1}
\]

Then,

\[
W(U(x^1)) > W(U(x^2)), \tag{2}
\]

and a policy designer choosing between states based on maximizing a welfarist social objective will choose the Pareto-preferred state, \( x^1 \).

1.2 Limited information

Suppose, instead, that the policy designer understands the welfare implications of only the first \( m < n \) elements of \( x \). For simplicity, I will denote this vector of data \( \chi \) and refer to it as the observable state. For each state \( x^s \), I will use \( \chi^s \) to denote its associated observable state. Specifically, the elements of \( x^s \) not in \( \chi^s \) are aspects of the state of the world that may affect individual welfare, but the policy designer is either unaware of those effects, unable to model them, or in some other way cannot form beliefs about how they affect individual welfare.\(^{10}\) Recall that \( U(x) \) is unobservable, so the designer cannot directly estimate these effects.\(^{11}\) Let \( \Xi \) be the set of all \( \chi \). Denote the individual welfare function defined on this limited information \( V : \Xi \to \mathbb{R} \). Retain the same definitions and notation for the social objective function and Pareto social preference relation as above, but now \( F : \Xi \to \mathbb{R} \), the welfare arguments of any \( F \) are the functions \( V \), and \( \succ_P \) is defined using the functions \( V \) over observable states \( \chi \in \Xi \).

\(^{10}\)I do not take a stand on which of these reasons is at play in any given circumstance. At times, society may be truly unaware of elements of the state space that matter to individual welfare. At other times, society may be unable to model the channels through which those elements matter.

\(^{11}\)This point intersects with the limitations of econometrics. In many areas of tax policy, for example, many outcomes of interest or determinants of such outcomes are functionally unobservable.
Consider the specific but plausible case in which the observable state \( \chi \) is what I will call *misleading*. For example, consider the case in which, for the pairs \((\chi^1, x^1)\) and \((\chi^2, x^2)\),

\[
x^1 >_P x^2 \quad \text{but} \quad \chi^2 <_P \chi^1.
\]  

That is, while the superiority of state \( x^1 \) is clear under full information, under limited information the Pareto-ranking of the states reverses and \( x^2 \) appears, through \( \chi^2 \), to be the better choice. Then,

\[
W(U(x^1)) > W(U(x^2)), \quad \text{but} \quad W(V(\chi^1)) < W(V(\chi^2)).
\]  

In words, with misleading information, the policy designer choosing between states based on a welfarist social objective will mistakenly choose \( x^2 \) (by choosing \( \chi^2 \)) even though \( x^1 \) is Pareto preferred.

In this case, information from the observable states \( \chi^1 \) and \( \chi^2 \) may help the policy designer avoid this mistake. Consider an element \( \alpha \) of \( \chi \) that takes different values in states \( x^1 \) and \( x^2 \). A social objective function may depend on \( \alpha \), and in so doing capture omitted, welfare-relevant information about the state \( x \).

In particular, define a social objective function \( \hat{F} \) such that, despite the misleading information,

\[
\hat{F}(V(\chi^1), \alpha^1) > \hat{F}(V(\chi^2), \alpha^2).
\]  

That is, if the policy designer uses this nonwelfarist (or more precisely, not purely welfarist) social objective function, state \( x^1 \) will be preferred, consistent with the Pareto criterion.\footnote{An ideal \( \hat{F} : \Xi \to \mathbb{R} \) would yield recommendations "close to" the true social objective function \( F : X \to \mathbb{R} \). The process by which society decides on such an \( \hat{F} \), including how it chooses \( \alpha \), is an important topic for further research. That task may be facilitated by the fundamentally welfarist social objective assumed here, as welfarism makes the ranking of options relatively straightforward. In the specific case of tax policy, work on principles such as Mill’s equal sacrifice or Smith’s classical benefit-based taxation suggest they are promising candidates for nonwelfarist principles implicitly chosen by (at least U.S.) society (see Scheve and Stasavage 2016, Weinzierl 2014, 2016a, 2016b). Thanks to Jiafeng Chen for suggesting this discussion.}

### 1.3 Relationship to Kaplow and Shavell (2001)

The preceding analysis relates to Kaplow and Shavell’s in an instructive way, in that it shows how limited information can create a situation in which a welfarist policy designer correctly using a nonwelfarist social objective appears to be violating the Pareto criterion, as those authors emphasize.

Consider the pair \((\chi^0, x^0)\), where \( \chi^0 \in \Xi \) and \( x^0 \in X \). Suppose that, for all \( i \),

\[
V_i(\chi^1) = V_i(\chi^0)
\]  

but that the same social objective function as above, \( \hat{F}(V(\chi), \alpha) \), yields:

\[
\hat{F}(V(\chi^1), \alpha^1) > \hat{F}(V(\chi^0), \alpha^0).
\]  

\footnote{Note that \( V \) cannot depend directly on \( \alpha \). By assumption, the planner cannot know how the omitted welfare-relevant aspects of the state directly affect utilities. That assumed limitation is why \( \hat{F} \) gives weight to the proxy \( \alpha \) directly. A different case, which I do not consider, is if individuals internalize a direct concern for the information in \( \alpha \), in which case \( \alpha \) would be an appropriate argument of \( V \). The policy designer will nevertheless retain an incentive to put weight on \( \alpha \) in \( \hat{F} \) in that case, as the individuals’ internalized concerns for \( \alpha \) may fail to match society’s optimal consideration of \( \alpha \). For a related discussion, see Kaplow 2008, p. 358.}
In words, the observable welfare implications of the observable states $\chi^1$ and $\chi^0$ are the same, but the nonwelfarist $\tilde{F}$ prefers $\chi^1$ because of its value of $\alpha$.

As Kaplow and Shavell show, the nonwelfarist nature of $\tilde{F}(V(\chi), \alpha)$ may make it appear as though a policy designer using it is violating the Pareto criterion in this case. To see why, suppose that the state $x^2$, the same state as in the limited information case above, relates to $x^0$ in a specific way. Namely, all individuals have slightly more of a component $x_k$ of $x$ that they positively and continuously value in $x^2$ than in $x^0$ (i.e., $x_k^2 = x_k^0 + \delta$ for $\delta > 0$), but all other aspects of $x^2$ and $x^0$ are unchanged. Assume $k < m$, so that $x_k$ is included in the observable state $\chi$. Then,

$$\chi^1 \prec_P \chi^2,$$

(8)

because for some $\delta > 0$ the observable state $\chi^2$ yields greater observable welfare for all individuals than does $\chi^1$. Recall, however, from the limited information case above, condition (5) relating these two observable states:

$$\tilde{F}(V(\chi^1), \alpha^1) > \tilde{F}(V(\chi^2), \alpha^2).$$

(9)

Conditions such as (8) and (9) lead Kaplow and Shavell, in the full-information analogue to this example, to conclude that the nonwelfarist social objective function $\tilde{F}$ causes the policy designer using it to violate the Pareto criterion (i.e., by choosing $\chi^1$ over $\chi^2$).

In this limited information setting, however, we know from condition (3) that:

$$x^1 \succ_P x^2,$$

(10)

because components of the states not included in the observable states make $x^1$ Pareto-preferred to $x^2$. This example shows, then, that the conclusion opposite to Kaplow and Shavell’s may be merited: if a nonwelfarist function takes into account otherwise unobservable, welfare-relevant information, it can help to ensure that the Pareto criterion is respected.

1.4 Examples

To make this formalization more concrete, suppose that the distinction between $\chi$ and $x$ is due to time horizon. That is, the policy designer cannot see infinitely far into the future, so the effects on welfare of elements in $x$ but not in $\chi$ are impossible to model. Fortunately, past human experience has found that those hidden effects are systematically related to $\alpha \in \chi$, a feature of the state that is observable far before the effects occur, perhaps due to inertia or other complex channels of causality. Society has therefore developed, and passed from generation to generation, a principle regarding $\alpha$. A welfarist planner will, in this situation, want to put weight on that principle.

To be even more concrete, suppose that an important welfare-relevant element of $x$ not included in $\chi$ is the degree of interpersonal trust in a society, and $\alpha$ is the extent to which envy is acknowledged as a morally legitimate emotion in that society in the preceding generation. A policy designer may be unable to model how welfare a generation in the future will be impacted by a current policy’s effect on future levels of interpersonal trust. But, that policy designer may be able to choose a policy that supports or undermines the moral legitimacy of envy in the current generation. If accommodating envy has tended to lower interpersonal trust—and thus overall welfare—in the past, society is likely to have developed a policymaking principle that discourages it. In that case, a policy designer will correctly rely on that nonwelfarist principle when making policy assessments.

As I will discuss in the next section, this last example fits well with both scholarly and popular resistance to envy-based redistribution in reality. It may be hard to explain precisely why many of

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14I thus adopt Kaplow and Shavell’s two mild technical assumptions.
us reject a policy that accommodates envy, though we may be confident in that judgment. In fact, many of us would agree that a policy accommodating envy is less likely to produce a Pareto-superior outcome than one that does not, so that the appearance of a Pareto-improving accommodation of envy would be misleading. We believe it would be missing something relevant to overall welfare even if we cannot say exactly what that something is.

2 Envy in a standard optimal tax model and in tax thinking

In this section, I provide evidence of an example in which it appears that policy preferences are consistent with this paper’s theoretical argument for the use of nonwelfarist rules. I focus on the role of envy in justifying income redistribution. First, I briefly review how tax theorists have responded to the complications introduced by the presence of envy. Then, I present the results of a new survey showing popular skepticism toward envy-based redistribution that appears to reflect the influence of nonwelfarist principles.

2.1 The welfarist’s dilemma with envy

Given a standard welfarist social objective function, the direct implications of envy for optimal tax policy are to increase the extent of redistribution. Boskin and Sheshinski (1978) and Oswald (1992) show this result in linear and nonlinear tax environments, respectively. For the purposes of this paper, a simpler setup is sufficient. I focus directly on allocations of resources, broadly construed, and show that the acceptance of envy may cause a reversal in the welfarist preferences over two allocations.

Consider the following utility function for individual $i$ comparing himself or herself to individual $j$, where $y_i$ is a measure of economic resources and $\alpha$, $\gamma$, and $\theta$ are scalars:

$$U_i(y_i, y_j) = \frac{\alpha}{1 - \gamma} \left[ \left( \frac{y_i}{(\max\{y_i, y_j\})^{\theta}} \right)^{1-\gamma} - 1 \right]. \quad (11)$$

Note that utility in (11) depends on envy through the ratio of individual $i$’s resources to the maximum level of individual resources in the population (here, of only two individuals).\(^{15}\) The parameter $\theta$ controls the degree of envy: $\theta = 0$ means envy exerts no influence on utility; $\theta = 1$ means that only $i$’s income relative to the maximum matters for $i$’s utility.\(^{16}\)

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\(^{15}\)This utility function is a standard representation of envy, but it could capture nonenvious concerns about the effects of relative status on wellbeing.

\(^{16}\)This utility function’s form of envy follows Rawls’ (1971) definition: "We envy persons whose situation is superior to ours...and we are willing to deprive them of their greater benefits even if it is necessary to give up something ourselves." (pp. 532-5) Rawls made an important distinction, summarized in Fleurbaey et al. (1992), in that he "did accept legitimate forms of resentment induced by inequalities, while at the same time rejecting feelings of envy as irrelevant for social evaluation." (in Fleurbaey et al., 1992). Adam Smith (1759) similarly defines envy as "that passion which views with malignant dislike the superiority of those who are really entitled to all the superiority they possess."
The following table displays two allocations of resources and the resulting well-being levels for different values of \( \theta \).

<table>
<thead>
<tr>
<th>Person</th>
<th>Well-being, ( \theta = 0 )</th>
<th>Well-being, ( \theta = 0.65 )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alloc. 1</td>
<td>Alloc. 2</td>
<td>Alloc. 1</td>
</tr>
<tr>
<td>Person i</td>
<td>5,000</td>
<td>6,000</td>
</tr>
<tr>
<td>Person j</td>
<td>10,000</td>
<td>16,000</td>
</tr>
<tr>
<td>Total</td>
<td>15,000</td>
<td>22,000</td>
</tr>
</tbody>
</table>

Note that Allocation 2 provides both individuals with greater resources but increases inequality between them. One way to interpret these allocations is that Allocation 1 can be obtained from Allocation 2 through a policy that destroys resources to achieve greater equality.

This example illustrates the power of envy to make welfarist-optimal policy more redistributive: a utilitarian will prefer Allocation 1 if envy's effects on well-being are considered normatively relevant, but the same utilitarian will prefer Allocation 2 if not. That is, as Table 1 shows, Allocation 2 provides a greater sum of well-being if each individual's utility function is independent of the other's allocation (i.e., when \( \theta = 0 \)). However, in the case of \( \theta = 0.65 \), where envy of the most advantaged lowers Person i's well-being, total well-being is greater in Allocation 1.

The welfarist logic for redistribution based on envy has been endorsed, perhaps grudgingly, by some economists and philosophers. They argue that, if envy reflects a real factor in well-being, it should count in our welfarist policy evaluations. For example, Marc Fleurbaey (2012) argues that "In particular, there seems to be nothing pathological when individuals resent their low position in the distribution and consider that it undermines their dignity...It is proposed here to accept all aspects of one's relative position as possibly relevant objects of personal preferences." Hare (1981) makes a similar argument: "...Envy has been accounted a sin; but its existence is a fact relevant to moral thinking. If there were good arguments in favour of inequalities, there would be equally good arguments in favour of suppressing envy. But if there are already arguments against the inequalities, it is likely to be better to remove the envy by removing the inequalities than by preaching against it as a sin." Rakowski (1991) makes the broader point: "utilitarianism forsakes its motivating idea and produces unattractive consequences if it excludes external preferences from its calculus."

On the other hand, many leading economists and philosophers (welfarist and otherwise) flatly reject policy that accommodates envy. Some argue that accommodating envy would not yield even directly welfarist gains. But most take a more indirect route. For example, Harsanyi (1982) strongly argues for omitting envy from welfare calculations because it is an example of "clearly antisocial preferences" while "the basis of utilitarianism is benevolence." Mirrlees's (1971) model...
assumes away other-regarding preferences, consistent with his later arguments that they can be generally disregarded (Mirrlees 1982, p. 76). Hayek’s opposition is vehement: "However human, envy is certainly not one of the sources of discontent that a free society can eliminate. It is probably one of the essential conditions for the preservation of such a society that we do not countenance envy, not sanction its demands by camouflaging it as social justice, but treat it, in the words of John Stuart Mill, as ‘the most anti-social and evil of all passions.’" Thomas Nagel (1995) recognizes that "...it must be acknowledged that such inequalities [of status] can cause a good deal of pain...But in the end, the unhappiness of unsuccessful contenders, or the low self-esteem of those who cannot even make the attempt, are not evils that a decent society should be asked to weigh in the balance against the concentrated support of what is best. Such inequalities are inextricable from the recognition and pursuit of certain values too important to be compromised."

One interpretation of this brief review is that the scholarly debate over tax policy’s response to envy pits pure, or direct, welfarists against those who look past envy’s direct welfare implications and rely on indirectly welfarist reasoning that is encoded into nonwelfarist principles. I now turn to evidence on how the public wrestles with that same dilemma.

### 2.2 New evidence on popular resistance to envy-based redistribution

First, I describe the survey.20 I listed the survey on Amazon’s Mechanical Turk (M-Turk) platform21 in mid-2016, and approximately 750 respondents were paid $2.50 or $3.00 to complete the survey, a task that took less than ten minutes on average. The results of interest relate to a set of questions asked early in the survey, where each respondent was randomly allocated to one of seven versions of the main survey module. The respondents were also asked to self-report a set of demographic characteristics, answer three mathematical exercises, and choose responses to several questions on their political views.

#### 2.2.1 Baseline setup

At the start of the main module of the survey, respondents are introduced to a hypothetical scenario that includes two unequal allocations of money across two individuals. (Readers will recognize the scenarios from Table 1 above). Specifically, in the baseline version respondents see the following screens after agreeing to take the survey:

![Figure 1. The first step of the main survey module in the baseline case.](https://hbs.qualtrics.com/SE/?SID=SV_80niBI5g6Fzhgln)

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20 Available at [https://hbs.qualtrics.com/SE/?SID=SV_80niBI5g6Fzhgln](https://hbs.qualtrics.com/SE/?SID=SV_80niBI5g6Fzhgln)

Figure 1 shows that a shift from Situation 1 to 2 increases the amount of money each individual has but widens the gap between them. If an individual’s welfare is independent of the other’s resources, both should have greater well-being in Situation 2 than in 1.

Respondents then advance to a second screen with additional information. In particular, they are given a measure of each individual’s well-being (for which a definition is given) in each situation.

<table>
<thead>
<tr>
<th></th>
<th>Situation 1</th>
<th>Situation 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Money</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Person F</td>
<td>5,000</td>
<td>6,000</td>
</tr>
<tr>
<td>Person G</td>
<td>10,000</td>
<td>16,000</td>
</tr>
<tr>
<td>Total</td>
<td>15,000</td>
<td>22,000</td>
</tr>
<tr>
<td>Well-being</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Person F</td>
<td>120</td>
<td>110</td>
</tr>
<tr>
<td>Person G</td>
<td>180</td>
<td>166</td>
</tr>
<tr>
<td>Total</td>
<td>280</td>
<td>276</td>
</tr>
</tbody>
</table>

Figure 2: The second step of the main survey module in the baseline case.

As Figure 2 shows, a shift from the first to the second allocation increases the well-being of the better-off individual but lowers the well-being of the worse-off individual, who thus appears to be affected by envy. Note that, to increase engagement with the question, I require respondents to calculate the changes in money and well-being for each individual. If they choose an incorrect answer, they receive an error message and must try again.

Importantly, the gain in well-being for the better-off individual is smaller than the loss for the worse-off individual in Figure 2, so the second allocation is worse from a utilitarian (or more egalitarian) perspective than the first. This fact is highlighted by showing the total levels of well-being in each situation. Being explicit on this point with respondents is important for avoiding concerns, raised by some scholars as mentioned above, that accommodating envy would be ineffective from a welfarist perspective.
Finally, as shown in Figure 3, respondents are asked "which situation do you think is better?"

![Figure 3: The third step of the main survey module in the baseline case.](image)

In response to this question, 54% of respondents prefer Situation 2. In other words, by not choosing Situation 1, more than half of the respondents reject a potential utilitarian gain when that gain is due to a negative welfare externality imposed by envy.

This result stands in sharp contrast to what would be chosen by the welfarist normative objective used in conventional optimal tax analysis. But, to reiterate this paper’s main argument, if respondents put weight on nonwelfarist principles that capture society’s accumulated knowledge of envy-based redistribution’s negative, unobservable welfare effects, a preference for Situation 2 is consistent with an underlying commitment to welfarism.

### 2.2.2 Robustness to variations on the baseline setup

Several variations on the survey support this baseline finding and provide insights into what drives it. As shown in Figure 4, the share of respondents preferring Situation 2, and thereby resisting envy-based redistribution, ranges from 40% to 73%.
The second and third columns of Figure 4 show the results for two variations that present the choice between the situations as an active policy intervention. In the "Policy shift 1 to 2" variation the respondent sees only Situation 1 at first (both the money and well-being data). On the next screen, the respondent is told that a policy is available that would cause a shift to Situation 2. Then, the respondent chooses whether to support that policy intervention. The "Policy shift 2 to 1" variation is the same, but with Situation 2 presented as the starting point. If respondents generically dislike policy intervention, we would expect a smaller share of respondents to choose Situation 2 in the first of these variations and a larger share to choose it in the second. Figure 4 confirms these expectations, with 41% and 59% of respondents choosing Situation 2 compared to 54% in the baseline.

The fourth column gives the results when I ask respondents to give their opinion on the situations twice: first after seeing only the allocations of money (as in Figure 1) and then again after seeing the levels of well-being (as in Figure 3). This variation potentially increases respondents’ engagement with and comprehension of the scenario. It also tests the extent to which having them focus on the allocations of money without information on well-being affects their eventual judgments. In this variation, 70% of respondents choose Situation 2 in the first step. With the information on well-being, that share is 56%, close to the baseline result.

The fifth column of Figure 4 corresponds to a variation in which I change the well-being calculations so that the shift from Situation 1 to Situation 2 generates a gain to Person F that is smaller than the loss to Person G. That is, total well-being is greater in Situation 2 than in Situation 1. If a respondent chooses Situation 1 in this case, he or she would appear to put greater weight on a maximin, or "Rawlsian," objective. In this variation, 73% of respondents choose Situation 2, suggesting that only a small share of respondents find a more egalitarian objective—such as maximin—
determinative for their distributive justice judgments.

In sum, these variations support the baseline results. So, too, do the variations behind the final two columns of Figure 4 to which I turn in the next subsection.

2.3 Suggestive evidence on use of nonwelfarist principles

Further examination of the survey results, including from two additional variations on the baseline setup, provide suggestive evidence that nonwelfarist principles may play the role suggested by the argument proposed in this paper, at least in the case of envy-based policy.

2.3.1 Increasing envy’s salience

First, two variations increase the salience of envy’s role in the hypothetical scenario. If respondents are weighing the utilitarian advantage of Situation 1 over Situation 2 against a nonwelfarist principle that rejects accommodating envy, priming their attention to that principle ought to sway preferences toward Situation 2.

The first variation highlights the role of envy, but avoids explicitly mentioning the word "envy." In particular, after the same screens as in Figure 1 and Figure 2, respondents assigned to this variation see the following screen.

![Figure 5: The third step of the main module in the Envy Salient variation.](image)

The key variation in this version of the survey is that respondents are shown a "possible interpretation" of the scenario that describes the effect of Person G’s allocation on Person F’s well-being,
making clear the negative externality envy exerts.\textsuperscript{22}

The second variation more aggressively raises the salience of envy by explicitly naming it, replacing the last paragraph in Figure 5 with the following:

Person F feels envy toward Person G. Person F’s well-being goes up when F has more money. But, due to envy, Person F’s well-being goes down when G has more money. Because the gap between the money G has and the money F has is larger in Situation 2 than in Situation 1, F’s well-being is lower in Situation 2, even though F has more money in Situation 2.

As the final two columns of Figure 4 show, the share of respondents choosing Situation 2 in these variations rises to 55\% and 63\%, respectively. The latter of these is significantly greater than the baseline result at the 10\% confidence level. The effect of increasing the salience of envy appears, therefore, to be to increase the share of respondents rejecting envy-based redistribution.

These results are consistent with respondents using nonwelfarist principles to reject envy-based redistribution.\textsuperscript{23} Recall that the direct implications of envy for a welfarist criterion are made explicit and are constant across these variations, suggesting that something other than information on these direct welfare effects is driving the respondents’ opinions. That is, if individuals give weight to nonwelfarist principles that resist the accommodation of envy, raising their level of awareness that Situation 1 violates those principles—while the utilitarian advantage of Situation 1 remains the same—would predict the increased support for Situation 2 that these variations generate.

\subsection*{2.3.2 Relation to political views}

We can utilize results from the "Choose twice" variation to provide further suggestive evidence that nonwelfarist reasoning may be behind the general rejection of envy-based redistribution. In that variation, respondents first choose between the situations knowing only the allocations of money across Person F and Person G. Then, the well-being data are revealed, and the respondents choose a second time.

In this variation, 15\% of respondents report a shift in their preferences toward Situation 1 after the well-being data are revealed. One interpretation of such a shift is that the respondents give sufficient weight to the potentially surprising facts they learn from the well-being data, namely that envy has caused both Person F’s well-being and total well-being to be lower in Situation 2 than in Situation 1.

Respondents who express support for libertarianism, a prominent alternative to welfarism, are less likely to change their preferences toward Situation 1 after the well-being data are revealed. Table 2 gives the results of a simple logit regression analysis using the self-reported demographic and opinion data from the survey as explanatory variables for the likelihood the respondents report a stronger preference for Situation 1 relative to Situation 2 after the well-being data are presented than before. Support for libertarianism is significantly and negatively related to this outcome.

\textsuperscript{22}To increase the likelihood that respondents perceive this effect, I require them to answer whether this interpretation is consistent with the calculations they made (it is). If they choose an incorrect answer, they receive an error message and must try again.

\textsuperscript{23}An alternative interpretation is that respondents were unable to understand the mechanism behind the changes in well-being without these explanations. In that case, the higher numbers choosing Situation 2 in these variations suggest greater baseline opposition to redistribution based on envy.
Table 2: Explaining support for envy-based redistribution

<table>
<thead>
<tr>
<th></th>
<th>Coefficient</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political perspective on economic issues (L to R)</td>
<td>-0.17</td>
<td>(0.35)</td>
</tr>
<tr>
<td>Support for Libertarianism</td>
<td>-1.32</td>
<td>(0.63)**</td>
</tr>
<tr>
<td>Belief that individuals are responsible for their basic needs</td>
<td>-0.09</td>
<td>(0.64)</td>
</tr>
<tr>
<td>Household’s income status at age 45</td>
<td>-0.04</td>
<td>(0.18)</td>
</tr>
<tr>
<td>Household’s income status at age 10</td>
<td>0.08</td>
<td>(0.17)</td>
</tr>
<tr>
<td>Gender (M=0,F=1)</td>
<td>0.88</td>
<td>(0.54)</td>
</tr>
<tr>
<td>Age</td>
<td>-0.18</td>
<td>(0.47)</td>
</tr>
<tr>
<td>Race (White=0, Black=1)</td>
<td>0.41</td>
<td>(0.35)</td>
</tr>
<tr>
<td>Education level</td>
<td>0.03</td>
<td>(0.29)</td>
</tr>
<tr>
<td>Score on math questions</td>
<td>-0.23</td>
<td>(0.54)</td>
</tr>
<tr>
<td>N</td>
<td>95</td>
<td></td>
</tr>
</tbody>
</table>

Notes: The dependent variable in this logit regression is the 0-1 indicator of whether the respondent expresses more support for Situation 1 relative to Situation 2 when the well-being allocations are revealed in the "Choose twice" variation of the baseline survey setup. A positive coefficient on an explanatory variable can be interpreted as meaning that a higher value for it is related to a higher likelihood that a respondent will support envy-based redistribution. The symbol ** denotes significance at the 5% level.

This result provides further suggestive evidence of the role of nonwelfarist principles in the public’s resistance to envy-based redistribution. While some respondents respond to the welfare information in the second stage of this variation in a way that acknowledges (and offsets) the effects of envy on well-being, fewer libertarians—who generally reject welfarist reasoning for policy—respond in this way. This is the pattern we would expect if nonwelfarist rules have more normative significance for the policy judgments of some (i.e., welfarist) individuals than others (i.e., libertarians).

3 Rule utilitarian policy design

The argument presented in this paper can be seen as extending a familiar logic for rule utilitarianism beyond individual ethics and as a specific version of a more general argument found in the writings of prominent thinkers, especially Hayek. In this section, I briefly review these linkages.

3.1 An informational logic for rule utilitarianism

A vast philosophical literature on rule utilitarianism establishes the importance of nonutilitarian principles for utilitarian individual ethics. Utilitarianism is the idea that questions of morality are to be decided based on the criterion of maximum overall welfare. One way for an individual to implement utilitarianism is to judge each of his or her actions by its impact on overall welfare, a practice philosophers name act, or direct, utilitarianism. An alternative implementation is to judge each action according to a rule that, when followed, will yield maximum overall welfare. Because this rule utilitarianism avoids the explicit calculation of an act’s welfare impact, it is sometimes called indirect utilitarianism. As quoted in the Introduction, Harsanyi gave one of the most emphatic endorsements of rule over act utilitarianism for individuals. At a formal level, rule utilitarianism dominates act utilitarianism because a rule utilitarian can choose adherence to act
utilitarianism as his or her rule. But Harsanyi and others who argue for rule utilitarianism in individual ethics have a more substantive logic, as well.\textsuperscript{24}

I will emphasize one aspect of moral philosophers’ substantive logic for why individuals ought to follow rule utilitarianism: namely, that limits to our knowledge make it unrealistic and unwise for an individual to be an act utilitarian.\textsuperscript{25} Unrealistic because an individual cannot know the full consequences of his or her actions; unwise because such an information-poor method of choosing actions will give the wrong answers in many cases.\textsuperscript{26}

In a well-known example of this logic, R.M. Hare (1981, 1982) stresses the role of information in requiring that moral thought proceed at two levels: "level-1, the everyday moral thinking...in which information is sparse," and "level-2...in which there is time for unlimited investigation of the facts." He imagines an "archangel [with] superhuman knowledge of the facts" practicing level-2 thinking in order to provide a moral education to children. The archangel "will try to implant in them a set of good general principles...they will use in their ordinary level-1 moral thinking." As Hare writes, "The result will be a set of general principles, constantly evolving, but on the whole stable, such that their use in moral education, including self-education, and their consequent acceptance by the society at large, will lead to the nearest possible approximation to the prescriptions of archangelic thinking."

A specific way in which individuals not using rules will miss relevant information is that the scope of direct, provably causal consequences of any individual ethical choice is inevitably narrow. Harsanyi (1977, 1982, 1992) stresses that rule utilitarianism circumvents this narrowness by taking into account not only the direct consequences of the rule’s verdict on a given ethical choice but also the causal consequences of the rule being adopted in general and the "noncausal logical implications of its adoption." As summarized by Marc Fleurbaey, Maurice Salles, and John Weymark (1992), Harsanyi concluded that: "an optimal rule utilitarian code provides desirable incentives to take actions (to work hard, to save and invest, etc.) that benefit society as a whole, and it provides assurances that individual interests will be protected (e.g., the interest of a lender in having a loan repaid). These effects are typically fairly small when considering individual acts in isolation, but can be considerable when the complete set of rights and obligations that constitute a rule utilitarian’s optimal moral code is considered."

Philosophers endorsing this logic for rule utilitarianism have long pointed out that it implies an individual may need to adhere to nonutilitarian principles to achieve utilitarian-optimal outcomes. Hare cites Plato and Aristotle as precursors for his two-level thinking, and Mill forcefully argues this point.\textsuperscript{27} More recently, Derek Parfit (1984) writes: "It is not the aim of a theory to be believed." Instead, at least in part because "[w]e often do not know what the effects of our acts would be," a moral theory may be most effective when individuals adopt principles for their actions that do not directly align with that theory; that is, when a theory is (in Parfit’s terminology) "self-effacing."

\textsuperscript{24}Jonathan Riley (2008) argues—contrary to Harsanyi—that certain nonconsequentialist priorities (e.g., rights) should be treated as lexicographically prior to utilitarianism. Also see Rawls (1971) on the priority of maximal equal liberty over his difference principle. I follow Harsanyi’s fundamentally consequentialist view.

\textsuperscript{25}An additional argument (see Hare 1981, chapter 3 and Sen 2011) is that humans are not sufficiently morally disciplined to implement act utilitarian calculations rather than serve their own self-interest. This concern is not a component of my argument because economists routinely include that form of behavioral constraint in optimal policy analysis (i.e., through incentive compatibility constraints).

\textsuperscript{26}The formalization of the previous section shows that this paper’s argument does not rest on there being risky consequences of actions (clarified by Hammond 1982), but on ignorance of, or inability to consider, a subset of consequences. My argument is also separate from Dasgupta’s (1982) insightful discussion of the optimal policy response to private information.

\textsuperscript{27}...to argue as if no such secondary principles could be had, and as if mankind had remained till now, and always must remain, without drawing any general conclusions from the experience of human life, is as high a pitch, I think, as absurdity has ever reached in philosophical controversy." (U, II, pp. 296-297).
The main thesis of this paper is that this logic for rule utilitarianism, as well as its implied role for principles that only indirectly further the underlying utilitarian goal, can be readily extended to the public sphere, justifying the use of nonwelfarist principles in fundamentally welfarist policy evaluation.28 Hare’s archangelic level-2 thinking requires a level of knowledge—about the functioning of the economy and society more broadly—that even the most sophisticated real-world policy designers lack, at least at any point in time. And Harsanyi’s emphasis on the indirect effects of adopting moral rules can be translated immediately to concerns about the "general equilibrium" effects of policy choices, for example on unobservable social norms and attitudes.29

Though it will not be the focus of this paper, a natural related conjecture is that the secondary principles useful to individuals and those useful to society share a source: accumulated human wisdom. As Mill (1871) writes in the context of individual ethics, "...mankind must by this time have acquired positive beliefs as to the effects of some actions on their happiness; and the beliefs which have thus come down are the rules of morality for the multitude, and for the philosopher until he has succeeded in finding better."30

3.2 Ignorance and policy rules

This paper’s argument is a specific version of a more general point made by eminent thinkers since policy design became a topic of study. Perhaps the most prominent development of that point is due to Friedrich A. Hayek, who stressed the impact of ignorance on optimal policymaking along a number of dimensions. Directly relevant to this paper, Hayek (1960) states the informational logic described above for the use of rules in individual ethics: "quite generally, the reliance on abstract rules is a device we have learned to use because our reason is insufficient to master the full detail of complex reality."31 Moreover, he thinks that the limits to individual knowledge naturally extend to society, as "Knowledge exists only as the knowledge of individuals...The sum of the knowledge of all the individuals exists nowhere as an integrated whole." These observations lead Hayek to a deep skepticism of what he calls the "idea of intelligent men coming together for deliberation about how to make the world anew." Instead, he endorses the idea that "civilization was the accumulated hard-earned result of trial and error; that it was the sum of experience, in part handed from generation to generation as explicit knowledge, but to a larger extent embodied in tools and institutions which had proved themselves superior— institutions whose significance we might discover by analysis but which will also serve men’s ends without men’s understanding them."

Hayek credits many eminent thinkers from the past with influencing his thought. He cites one Roman philosopher, Cicero, quoting another, Cato, writing that "there has never lived a man

28 In the appendix, I discuss the relationship of this paper’s argument to the philosophical idea of public reason.
29 As I mentioned in an earlier note, such concerns are relevant to advocates across the political spectrum. The unobservable long-term effects of progressive tax and transfer policy on social norms is a classic concern of those on the "right," while the importance of progressive tax and transfer policy to social cohesion and the legitimacy of the state in a capitalist economy is a major concern of the "left."
30 Mill reiterates the point later: "Again, defenders of utility often find themselves called upon to reply to such objections as this— that there is not time, previous to action, for calculating and weighing the effects of any line of conduct on the general happiness...The answer to the objection is, that there has been ample time, namely, the whole past duration of the human species. During all that time, mankind have been learning by experience the tendencies of actions; on which experience all the prudence, as well as all the morality of life, are dependent." Also see Harsanyi (1982), who discusses promise-keeping and writes: "rule utilitarianism comes fairly close to traditional morality in recognizing the importance of social institutions which establish a network of moral rights and of moral obligations among different people in society."
31 Also see: "Certainty we cannot achieve in human affairs, and it is for this reason that, to make the best use of what knowledge we have, we must adhere to rules which experience has shown to serve best on the whole, though we do not know what will be the consequences of obeying them in the particular instance."
possessed of so great a genius that nothing could escape him, nor could the combined powers of all men living at one time possibly make all the necessary provisions for the future without the aid of actual experience and the test of time." He also cites the influence of David Hume, Adam Smith, and Edmund Burke, each of whom emphasized the importance of experience, not just abstract reason, in forming our individual moral judgments and the related importance of respecting social institutions and principles that arose from a social evolutionary process of historical trial and error.\textsuperscript{32} Hayek (1973) laments that political theory in his time had moved away from his arguments and adopted, instead, what he called "constructivist rationalism" based on the belief that "all the relevant facts are known to some one mind, and that it is possible to construct from this knowledge of the particulars a desirable social order." He would no doubt raise the same concern about the standard modern approach to optimal policy analysis.

4 Conclusion

Evidence that nonwelfarist principles are used in real-world policy evaluation is not limited to this paper. In brief, a large body of research across the social sciences has shown that most people consider multiple, often mutually contradictory principles when making normative judgments on economic policy. I have previously referred to this phenomenon as normative diversity. This paper’s argument closely relates to the idea of normative diversity, as it offers a logic for principles not directly related to society’s ultimate objective to nevertheless be included in that society’s method of policy assessment. If this argument is accepted, the next task for research is to identify the diverse set of rules that act as informational proxies.\textsuperscript{33} Potential sources of evidence on this include public opinion, robust features of policy that help delineate between principles, political rhetoric, and scholarly analysis.

Though the argument for a welfarist role for nonwelfarist rules has a long historical reach, a foundation in familiar theories of individual ethics, and growing empirical support, it has been discounted in modern normative economic policy research. This paper hopes to renew interest in it and spur further work on it.

\textsuperscript{32}See, for example, Hume (1738, vol 2, 3.2.2; 1752, p. 60) and Hayek (1960, note 37 p. 436); Smith (1759, 6.2.2; 7.3.2); and Burke (1790, p. 120).

\textsuperscript{33}For evidence and analysis of normative diversity and two prominent nonwelfarist principles that may exert influence in U.S. policymaking, see Weinzierl, 2014, 2016a, 2016b.
References


5 Appendix

5.1 Relation to the "envy-free" requirement

The large literature on envy-free allocations or the Envy Test is only tangentially related to this paper (see Varian 1974 and Dworkin 1981). The reason is the distinction between technical economic envy and psychological envy, in the words of Elizabeth Anderson. I am interested in the latter, while these ideas relate to the former. My focus is the same as Smith’s (1759) definition: "Envy is the passion which views with malignant dislike the superiority of those who are really entitled to all the superiority they possess."

The idea of an allocation that is "envy-free" is that no individual wishes to have the bundle of goods another has. An ambiguity in this definition is what goods are contained in the bundle, and in particular whether natural talents are included. If not, that is if envy-freeness means simply what optimal tax theorists mean when they write incentive constraints, then envy-freeness does not eliminate the sort of envy about which I am concerned.

I am interested in the more colloquial meaning of envy, that is that someone suffers from the superior set of circumstances, opportunities, or resources another enjoys. In terms of the optimal tax model, a person of a lower ability type may not want to switch bundles of consumption and income with a higher type holding their types fixed, but he would gladly trade places with the higher type. A low-ability person may have lower wellbeing because a high-ability person can have both higher consumption and leisure. That inequality makes the low-ability person sad. Formally, I will represent this as an individual’s utility depending negatively on the resources of those of higher abilities (assuming preference heterogeneity).

5.2 Relation to the topic of Public Reason

This paper’s argument is closely connected to the topic of Public Reason. It claims that nonwelfarist priorities ought to count in policy assessment—equivalently, they can withstand the test of public reason—because they carry information that is useful to society. In other words, those nonwelfarist principles the reasonableness of which I could convince you are those that carry with them wisdom about consequences it is otherwise difficult to take into account. (see Hare 1992 and 1981, II.9.7 for related arguments).

5.2.1 Ingham’s Dilemma

Sean Ingham (2016) poses a tidy dilemma for supporters of public reason. Start with a reasonable principle, add a plausible fact about how the world works, and you’ll end up with a conclusion we ought to accept. But then start with another reasonable principle, add another plausible fact about the world, and you could very well end up with a conclusion directly at odds with the first. How can public reason accomplish anything if it is so vulnerable to inconsistency?

I would first like to suggest an even harsher version of Ingham’s Dilemma. Namely, we can rewrite his example using the same auxiliary fact in both of the eventually contradictory logical chains. For example, consider the following:

Chain 1:

(A1) Society should adopt tax policies that would increase aggregate utility.
(A2) Destroying justly-acquired resources held by the advantaged would lower their utilities less than it would raise the utilities of the envious.
(A3) Thus, society should destroy justly-acquired resources held by the advantaged.
Chain 2:
(B1) People have a right not to have their justly-acquired resources destroyed by society to raise the utilities of the envious.
(B2) Destroying justly-acquired resources held by the advantaged would lower their utilities less than it would raise the utilities of the envious.
(B3) Thus, society should not destroy justly-acquired resources held by the advantaged.

Now, we have contradictory endpoints (A3 and B3 cannot both be true), identical midpoints (A2=B2), and (I would argue) reasonable starting points (A1 and B1 are certainly not unreasonable). Note that, like Ingham, nothing in my argument depends on whether this specific A2 (equivalently B2) is correct.

This example clarifies what is at the heart of Ingham’s Dilemma: we are obligated to acknowledge that many principles are reasonable, but a number of pairs of those principles will lead to conflicting policy recommendations. What are we to do with that potentially discouraging implication?

As the argument and evidence presented in this paper suggest, one resolution to this dilemma is to simply accept it. That is, both (A3) and (B3) have a claim to our support, and the policy question in any given circumstance is which claim is stronger. More formally, we might insert a new element into Chain 1, and revise its final claim, capturing this paper’s argument:

Chain 3:
(A1) Society should adopt tax policies that would increase aggregate utility.
(B1) History has shown that tax policies respecting people’s moral claim to justly-acquired resources typically lead to increased aggregate utility in future generations.
(A2) Destroying justly-acquired resources held by the advantaged would lower their utilities less than it would raise the utilities of the envious.
(A3) Thus, society should destroy justly-acquired resources held by the advantaged only if the aggregate utility gains of those currently affected will be large.