Does Rising Inequality Harm the Middle Class

Professor Robert Frank
Henrietta Johnson Louis Professor of Management and Professor Economics, Cornell University, New York

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* Lecture drawn from the following paper.
Are Positional Externalities Different?

Are Positional Externalities Different from Other Externalities?

by

Robert H Frank

A nice suit is one that compares favorably with those worn by others in the same local environment. More generally, a positional good is one whose utility depends on how it compares with others in the same category.\(^2\)

A positional externality occurs when new purchases alter the relevant context within which an existing positional good is evaluated.\(^3\) For example, if some job candidates begin wearing expensive custom-tailored suits, a side effect of their action is that other candidates become less likely to make favorable impressions on interviewers. From any individual job seeker’s point of view, the best response might be to match the higher expenditures of others, lest her chances of landing the job fall. But this outcome may be inefficient, since when all spend more, each candidate’s probability of success remains unchanged. All may agree that some form of collective restraint on expenditure would be useful.

In such cases, however, it is often impractical to negotiate private solutions. Do positional externalities then become legitimate objects of public policy concern? In attempting to answer this question, I employ the classical libertarian criterion put forth by John Stuart Mill, who wrote the state may not legitimately constrain any citizen’s freedom of action except to prevent harm to

\(^1\) H. J. Louis Professor of Economics, Johnson Graduate School of Management, Cornell University, Ithaca, NY 14853 USA.


\(^3\) Frank, 1991.
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others. On the basis of a variety of market evidence, I argue that many positional externalities appear to meet Mill’s test, causing not just negative feelings but also large and tangible economic costs to others who are ill-equipped to avoid them. I also discuss an unintrusive policy remedy for positional externalities, one modeled after the use of effluent charges to curb environmental pollution.

I Concerns about Relative Position

Most of us were taught from an early age not to worry about how our incomes compare with the incomes of others. This sensible advice stems from the observation that since there will always be others with more, focusing closely on income comparisons cannot help but generate reasons to feel unhappy.

But suppose you were faced with a choice between the following hypothetical worlds:

World A: You earn $110,000 per year, others earn $200,000;

or

World B: You earn $100,000 per year, others earn $85,000.

The income figures are different in two worlds only because the economy of World A is more productive than that of World B. Your higher income in World A would enable you to purchase a house that is 10 percent larger than the one you would be able to afford in World B, 10 percent more restaurant meals, and so on. No matter which world you choose, your relative position will

4 On Liberty cite.
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not change in the future. Confronting a once-for-all choice between these two worlds, which one would you choose?

Modern economic theory rests on the premise that World A is the uniquely correct choice. This theory assumes that people derive satisfaction primarily from the absolute quantity of goods and services they consume. On that measure, World A is better because it offers higher absolute consumption for every citizen. That fact notwithstanding, a substantial proportion of people confronted with this choice say they would opt for World B.

Many economists appear reluctant to take seriously the concerns that might lead people to make this choice. On its face, this is a curious position for a profession whose practitioners are quick to endorse Jeremy Bentham’s dictum that a taste for poetry is no better than a taste for pushpins. If most people say they would prefer World B, a genuine commitment to consumer sovereignty would appear to rule out any categorical claim that World A is necessarily best for all.

This simple thought experiment is consistent with the hypothesis that, within limits, people appear willing to sacrifice absolute consumption for improved relative position. The same hypothesis has received strong support in the empirical literature on human happiness and well-being.\(^5\)

For several decades, behavioral scientists, mainly psychologists, have been actively attempting to measure human subjective well-being. They employ a variety of instruments, ranging from

\(^5\) For a comprehensive survey of this literature, see Diener, Kahneman, and Schwartz, 1998.
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simple surveys that ask people to report how happy they are to sophisticated
electroencephalographic assays that measure the frequency and amplitude of the electrical waves
emanating from different sites in the brain. Individual readings from the various measures turn
out to be remarkably consistent with one another, and consistent as well with a variety of other
evidence regarding human well-being. People who say they are happy or who are revealed as
happy by the various other measures, for example, are also more likely to be rated as happy by
their friends. And all of the happiness measures are strongly correlated with observable
behaviors that we associate with well-being. Those who identify themselves as happy in surveys,
for example, are more likely to initiate social contacts with friends and more likely to help others
in need. They are less likely to suffer from psychosomatic illnesses—digestive disorders,
headaches, vascular stress, and other stress disorders. They are less likely to be absent from
work, or to get involved in disputes at work. And they are less likely to attempt suicide—the
ultimate behavioral measure of unhappiness. In brief, the happiness literature has identified
measures of human subjective well-being that are consistent, valid, and reliable.6

What factors influence happiness? Much of the interpersonal variation in happiness appears
hereditary, but environmental factors also seem to matter. People who have many close friends,
for example, tend to be significantly happier than others, and also to live longer.

What about income? Studies show that when incomes rise for everybody, measures of well-being
do not change much. Consider the example of Japan, which was a very poor country in 1960. In

6 For a brief survey of the studies that support these claims, see Frank, 1999, chapter 5.
the ensuing decades, its per-capita income rose many-fold, yet the average happiness level reported by the Japanese remained essentially unchanged (See Figure 1).

![Figure 1. Average Happiness vs. Average Income Over Time in Japan](image)

The pattern shown in Figure 1, which consistently shows up in other countries as well, poses an apparent challenge for conventional economic models. If getting more income does not make people happier, why do they go to such lengths to get more income? Why, for example, do legal associates work 100 hours a week hoping to become partners in law firms? Why do tobacco company CEOs endure the public humiliation of testifying before Congress that nicotine is not addictive?

It turns out that if we measure the income-happiness relationship in a second way, income matters very much indeed. Consider Figure 2, which shows this relationship for the United States during a brief period during the 1980s. When we plot average happiness versus average income
for clusters of people in a given country at a given time, as in the diagram, rich people are in fact substantially happier than poor people.

![Figure 2. Income Vs Satisfaction in the US, 1981-4.](image)


The patterns portrayed in Figures 1 and 2 are consistent with the view that relative income is a far better predictor of happiness than absolute income. That relative income matters is often seen as a regrettable human frailty. Yet it is a mistake to view concerns about relative income in harshly pejorative terms. These concerns are much better understood as an unavoidable consequence of the need to make the kinds of evaluative judgments people confront as they attempt to solve practical problems in their daily lives.

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7 On this point, see especially Easterlin, 1976, Easterlin 1995, and Clark and Oswald, 1996.
Suppose you must decide what to wear outside. Is it a cold day? Pose that question on a 60-degree day in Havana in November and people will say of course! But on a 60-degree day in March in Helsinki, they will say no. And in each case, people will think you are stupid for having had to ask. Havana residents will wonder that you did not notice people huddled in blankets around bonfires. Helsinki residents will be puzzled at your having overlooked the crowds in the streets celebrating the warm day in shirtsleeves. Of course, if it gets cold enough, or hot enough, then it matters little what city you are in. But within a broad band of temperatures, local context is decisive.

Consider the two vertical lines shown in Figure 3. Which one is longer? In psychology laboratories around the world, subjects confidently answer that the one on the right is longer. Why? Because it *looks* longer. In fact, however, the two lines are the same length. The line on the right looks longer because it bridges a larger share of the gap between the two horizontal lines.

![Figure 3. Which vertical line is longer?](image)

Similar framing effects color our evaluations of the things we own. Suppose you ask, “Is my car OK?” and your car happens to be a 1978 Chevy Nova. Your answer to this question will depend
on context. If you live in Havana, this is more than OK. To arrive at a social gathering in it is like having a sign around your neck saying, “I am a player.”

The same car would be seen differently by an aspiring film producer in Bel Air, California. There, arriving at a social gathering at the wheel of a 1978 Chevy Nova is like having a sign around your neck saying “I am not a player.” Skillful dealmakers in Bel Air do not drive 1978 Chevy Novas, and in that context, the car sends a costly negative signal. To experience discomfort about that car in Bel Air is not to be saddled with a psychopathology.

Adam Smith made essentially the same point in *The Wealth of Nations* when he described how community consumption standards affected which goods came to be viewed as essential, or “necessaries”:

By necessaries I understand not only the commodities which are indispensably necessary for the support of life, but whatever the custom of the country renders it indecent for creditable people, even of the lowest order, to be without. A linen shirt, for example, is, strictly speaking, not a necessary of life. The Greeks and Romans lived, I suppose, very comfortably though they had no linen. But in the present times, through the greater part of Europe, a creditable day-labourer would be ashamed to appear in public without a linen shirt, the want of which would be supposed to denote that disgraceful degree of poverty which, it is presumed, nobody can well fall into without extreme bad conduct. Custom, in the same manner, has rendered leather shoes a
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necessary of life in England. The poorest creditable person of either sex would be ashamed to appear in public without them.8

The same issues play out in contemporary societies, the only difference being that the standards that now define necessity have escalated sharply since Adam Smith’s day. In the late 1990s, for example, the New York Times’s Chicago bureau chief, Dirk Johnson, filed a detailed report after having spent several days with the Williams family in Dixon, Illinois, a wealthy community west of Chicago. Although the family’s annual income was slightly above the Federal poverty threshold, they lived in a trailer park just outside the city limits and were conspicuously disadvantaged by local standards. Some excerpts from Johnson’s account of several days spent with Wendy Williams, the family’s 13-year-old daughter:

Watching classmates strut past in designer clothes, Wendy Williams sat silently on the yellow school bus, wearing a cheap belt and rummage-sale slacks. One boy stopped and yanked his thumb, demanding her seat.

“Move it, trailer girl,” he sneered.

It has never been easy to live on the wrong side of the tracks. But in the economically robust 1990’s, with sprawling new houses and three-car garages sprouting like cornstalks on the Midwestern prairie, the sting that comes with scarcity gets rubbed with an extra bit of salt.

8 Page cite.
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….To be without money, in so many ways, is to be left out.

“I told this girl: ‘That’s a really awesome shirt. Where did you get it?’”

said Wendy, explaining that she knew it was out of her price range, but that she wanted to join the small talk. “And she looked at me and laughed and said, ‘Why would you want to know?’”

A lanky, soft-spoken girl with large brown eyes, Wendy pursed her lips to hide a slight overbite that got her the nickname Rabbit, a humiliation she once begged her mother and father to avoid by sending her to an orthodontist.

For struggling parents, keenly aware that adolescents agonize over the social pecking order, the styles of the moment and the face in the mirror, there is no small sense of failure in telling a child that she cannot have what her classmates take for granted.

“Do you know what it’s like?” asked Wendy’s mother, Veronica Williams, “to have your daughter come home and say, ‘Mom, the kids say my clothes are tacky,’ and then walk off with her head hanging low.” 9

In Adam Smith’s day, overbites and crooked teeth were not markers of social position, because not even the children of the wealthy had access to the kinds of cosmetic dentistry we now take for granted. Although the best response available to someone in Wendy Williams’s position may

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be to attempt to ignore the taunts of her classmates, such attempts are rarely completely successful. The psychological injuries suffered may be diminished, but not completely eliminated. I will return below to the question of what status such injuries ought to have in public policy analysis.

II Rising Income Inequality and Expenditure Cascades

My focus thus far has been on the psychological costs of having low relative position. Although these costs are real, many economists feel uncomfortable about giving them decision weight for policy purposes, perhaps out of concern that to do so might encourage people to be less aggressive in taking their own steps to alleviate feelings of relative deprivation. But not all costs of inequality are psychological. In this section I describe a variety of ways in which increased income and wealth inequality have made it more costly for middle-income families to achieve important goals in everyday life.

During the three decades following World War II, incomes grew at about the same rate for families up and down the income ladder. Since then, however, most of the economic gains have been captured by families near the top (see Tables 1 and 2).
Income inequality has also increased in two important ways not portrayed in these two tables. One is that changes in the income-tax structure during the Ronald Reagan and George W. Bush presidencies significantly shifted real after-tax purchasing power in favor of those atop the socioeconomic ladder. A second change not reflected in the tables is the magnitude of the earnings gains recorded by those at the very top, which have been almost without historical precedent. According to *Business Week*'s annual compensation survey, for example, CEOs of the largest U.S. companies earned more than 500 times as much as the average worker in 2003,
compared to just 42 times as much in 1980. Available data for top earners suggest that similar changes have occurred in other market segments.  

For the last several decades, then, the general pattern has been one of absolute income losses for those in the bottom quintile, small gains for those in the middle, strong gains in the top quintile, and spectacular gains for those at the very top. Have these changes made life more difficult for middle-class families?

According to conventional economic theory (I refer to the permanent-income hypothesis and the life-cycle hypothesis), a family’s total spending over the course of its life cycle should closely track its total lifetime income. In response to the observed distributional changes, then, conventional theory predicts substantial increases in consumption by top earners and little or no change in consumption by those in the middle. If we add the standard assumption that utility depends primarily on absolute consumption, conventional models suggest that the observed changes in income patterns have not been costly for middle-class families.

Nor indeed is there any indication that such families are directly troubled by the widely reported spending habits of the wealthy. On the contrary, many middle-class families actually appear entertained by television and magazine coverage of the lifestyles of the rich and famous. Sociological studies consistently confirm that the comparisons that really matter are highly local

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10 Frank and Cook, 1995.
11 Friedman, 1957; Modigliani and Brumberg, 1955.
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in character. As Bertrand Russell once remarked, “Beggars don’t envy millionaires; they envy other beggars who earn more than they do.”

But even if local comparisons are the only ones that count, sharply increased spending by top earners may nonetheless have spawned significant additional spending by the middle class. When top earners build larger mansions, for example, they shift the frame of reference that defines an acceptable house for those just slightly below them on the income scale. And when those people respond by building bigger houses, they in turn shift the frame of reference for those just below them, and so on, all the way down.

Increased expenditures by top earners may thus launch what I call an “expenditure cascade” that results in increased expenditures even among those whose incomes have not risen. With respect to housing, perhaps the single most important category of household expenditure, the cascade story tracks experience far more closely than conventional consumption models. Thus the median size of a newly constructed house in the United States, which stood at 1500 square feet in 1970, had risen to over 2300 square feet by 2000, despite the fact that the median family’s real income had scarcely changed in the intervening years.

This change has important implications for the spending decisions of even those families who are completely unconcerned about relative house size per se, because the cost of sending a child to a school of average quality is closely linked to the price of the average house in the community. In the United States this is true in part because of the direct link between local school budgets and

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12 For a survey, see Frank, 1985, chapter 2.
13 Cite.
local property tax revenues. But in the light of evidence that any given student’s achievement level rises with the average socio-economic status of his or her classmates, property values and school quality will be positively linked even in countries in which school budgets largely independent of local property values.

We may safely assume that most middle-class families aspire to send their children to schools of at least average quality. Indeed, parents who felt completely at ease with the prospect of their children attending below-average schools would be judged harshly in most countries. The fact that median house size has increased so much in recent years has thus confronted many middle-income families with a painful dilemma. They can either send their children to a school of average quality by purchasing a house that is larger and more expensive than they can comfortably afford; or they can buy a smaller house that is within their budget and send their children to a below-average school. To see why so many families might find the former option more compelling, we need not assume that they are strongly prone to envy or jealousy.

A similar logic applies to a middle-class family’s decision about which car to purchase, for in this domain as well, we see evidence of an expenditure cascade. Higher incomes at the top have induced top earners to buy cars that are faster, more luxuriously appointed, and heavier than those purchased by their counterparts two decades earlier. But the same changes have occurred even for automobiles marketed directly to middle-income consumers whose incomes have risen little. Today’s entry level Honda Civic, for example, is at 2500 pounds about the same size as 1985’s Honda Accord, whose current model weighs 3200 pounds. For about the same real price, an Accord buyer in 1985 could buy today’s Civic and in the process do better on virtually every
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absolute performance dimension. The new Civic is faster and more reliable than the old Accord. It has nicer upholstery and a better sound system. And it even gets better gas mileage.

But people who buy a 2500-pound Civic today will incur a significant risk that they wouldn’t have incurred in their 1985 Accords, because they must now share the roads with 6,000-pound Lincoln Navigators and 7,500-pound Ford Excursions. The odds of being killed in a collision rise roughly five-fold if your car is struck by one of these large vehicles. To explain why many families might decide against today’s Honda Civic, we need not assume that they are driven by envy or other psychological frailties.

Increased incomes at the top have also meant increased spending on clothing, and here too we see evidence of a cascade that has affected people in the middle. And in this instance as well, we need not invoke envy to explain why people in the middle might have decided to spend more than in the past. First impressions count for a lot during job interviews, but looking good is an irreducibly relative concept. It means looking better than others who are competing for the same job. If others are spending more, you must spend more as well, or else be prepared to live with reduced odds of landing the job you want.

Even the gifts that middle-income families feel compelled to give are have been affected by the greater affluence of top earners. Suppose you have been invited to a professional associate’s home for dinner and want to bring a bottle of wine for your host. What should you bring? John Brecher and Dorothy Gaiter, whose unpretentious, value-oriented wine column appears each Friday in The Wall Street Journal’s weekend section, devoted a recent column to precisely this
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question. “Ask a respected wine merchant to suggest an unusual wine, one that your host is unlikely to have tried before,” they sensibly recommended. “And plan on spending about $30.”

Why should you spend so much, given that many wines available today for under $10 are far better than the wines drunk by kings of France in centuries past? In part because you have an interest not only in how the wine tastes, but also in how your gift will be interpreted. Higher incomes of top earners have led not only to the predicted higher spending on the most celebrated wines, but also to an increase in what typical consumers spend on far more ordinary varieties. Giving a wine that has become inexpensive by today’s standards might be read as a statement that you view your relationship with your host as unimportant. So unless you really don’t care about the relationship, the extra $20 is probably worth spending. Here again, we need not invoke envy to explain why many in the middle might feel pressure to spend more.

How can middle-class families be spending significantly more on housing, cars, clothing, gifts, and other goods if median earnings are only slightly higher than in the late 1970s? The answer is that they appear to be working every margin. They are working longer hours, saving less, borrowing more, commuting longer distances, and filing for personal bankruptcy rates than their counterparts in the 1970s and 1980s.14

Is there any evidence that the growth in inequality of recent decades has played a causal role in the expenditure cascades described above? Bjornulf Ostvik-White, Adam Levine and I have attempted to answer this question using census data on earnings inequality and a variety of data

14 For a survey, see Frank, 1999, chapter 3.
on expenditure and financial distress. Our principal focus was on housing, which, as noted, is by far the most important expenditure category for middle-income consumers.

Using data specially prepared by the Census Bureau, we regressed median house prices in the year 2000 for a random sample of 181 U. S. school districts against income inequality (as measured by the ratio of the 95th percentile family’s earnings to the median family’s earnings in each district) and a variety of control variables, including median income, percent of persons retired, and per-pupil school expenditures. For most of the school districts in our sample, the 95/50 ratio varied from 2.0 to 6.0, with only a handful of districts outside that range. Median house prices in the sample averaged just under $125,000. The results of this regression are reported in Table 3.

**Table 3. The Effect of Earnings Inequality on Median House Prices**  
**Sample: 181 U.S. School Districts in 2000**

<table>
<thead>
<tr>
<th>Independent variable</th>
<th>Coefficient</th>
<th>Standard Error</th>
<th>t-ratio</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constant</td>
<td>-71,968.0</td>
<td>33,974</td>
<td>-2.12</td>
<td>0.0356</td>
</tr>
<tr>
<td>% Retired</td>
<td>-1,570.12</td>
<td>437.8</td>
<td>-3.59</td>
<td>0.0004</td>
</tr>
<tr>
<td>Median income</td>
<td>3.08256</td>
<td>0.3418</td>
<td>9.02</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td>Inequality (95/50)</td>
<td>38,222.3</td>
<td>6568</td>
<td>5.82</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td>Expenditure per pupil</td>
<td>-0.7673</td>
<td>1.220</td>
<td>-0.63</td>
<td>0.5302</td>
</tr>
</tbody>
</table>

I begin with brief observations about the estimated coefficients for our control variables. We found, for example, that median house prices rose slightly more than $3 for each $1 increase in median income, a link that is broadly consistent with the financial rule of thumb that one should expect to pay roughly three times one’s annual income for a home. Our expectation that median house prices would be lower in districts heavily populated by retirees was also confirmed by our estimate that each one point increase in the percentage of persons retired produced a price decline of almost $1600. Finally, we included public school expenditure per pupil as an additional control variable to allow for the possibility that houses in better school districts might command premium prices. The estimated coefficient for this variable was actually negative, though not statistically significant. Perhaps higher taxes in districts with high per-pupil expenditures more than offset the positive effect of better schools.

For present purposes, of course, the coefficient of greatest interest is the one for our measure of income inequality. By almost any standard, it is unusually large: Each one-unit increase in the 95/50 ratio summoned an increase in median house price of more than $38,000. That median house prices will be higher in high-inequality school districts is a direct prediction of the expenditure cascade hypothesis. Our data confirm this prediction dramatically. In contrast, conventional economic models predict no link between median house prices and income inequality.

Table 4 helps illustrate the scale of the effect by examining some of the relevant characteristics of two small Midwestern cities, Danville, Indiana and Mount Vernon Illinois. The two cities have almost the same percentage of retired persons, so their median house prices should not
differ significantly on that account. But because median income in the year 2000 was more than $10,000 lower in Danville than in Mount Vernon, the home-finance rule of thumb predicts a median house price in Mount Vernon Mount roughly $30,000 higher than in Danville.

<table>
<thead>
<tr>
<th></th>
<th>Danville, Indiana</th>
<th>Mount Vernon, Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median Income</td>
<td>$30,680</td>
<td>$40,893</td>
</tr>
<tr>
<td>Retired Percentage</td>
<td>30.5%</td>
<td>30.9%</td>
</tr>
<tr>
<td>Median House Price</td>
<td>$130,900</td>
<td>$62,280</td>
</tr>
<tr>
<td>95/50 Ratio</td>
<td>4.62</td>
<td>2.043</td>
</tr>
</tbody>
</table>

Table 4. House Prices in Two Midwestern Cities

Yet the median house price in Danville, at almost $131,000, was actually more than twice as large as the corresponding median in Mount Vernon. According to the expenditure cascade hypothesis, this reversal is a consequence of the fact that the 95/50 ratio in Danville was more than twice the corresponding ratio in Mount Vernon in the year 2000. The median family in Danville had to make its way in an environment shaped in part by the spending of a 95th percentile family earning more than $141,000 a year. In contrast, the 95th percentile family in Mount Vernon earned just over $83,000. If we take these estimates at face value, they suggest that the costs imposed on middle-income families by rising income inequality may be high indeed.

There is additional evidence in support of the expenditure cascade hypothesis. Ostvik-White, Levine, and I also found, for example, that states with higher 95/50 ratios also have significantly higher personal bankruptcy rates, divorce rates, and average commute times.16 Using OECD data

16 Frank et al., 2003.
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across countries and over time, Bowles and Park found that total hours worked were positively associated with higher inequality, both as measured by the 90/50 ratio and the Gini coefficient.\(^{17}\)

To summarize, available evidence suggests that rising inequality imposes not only psychological costs on the members of middle-income families, but also a host of other more tangible economic costs. A family’s ability to achieve a variety of important objectives in life depends not just on how much it spends in absolute terms but also on how its expenditures compare with those of others. Expenditure cascades launched by the higher incomes of top earners constitute positional externalities.

Should Positional Externalities Be Treated Differently?

As noted at the outset, the libertarian tradition holds that the state may restrict someone’s liberty of action only to prevent harm to others. Increased spending by top earners does in fact appear to harm others. Parents who save less or work longer hours in order to be able to afford a house in a better school district may have no conscious intention to impose costs on other parents. Nor is it likely that those who buy expensive interview suits wish to impose additional costs on other job candidates. Yet such actions do impose costs on others, forcing them to spend much more than would otherwise be necessary to achieve ordinary life objectives.

But preventing harm to others is only a necessary condition for government intervention, not a sufficient condition. Indeed, liberal societies routinely permit actions that cause harm to others, typically on the grounds that even greater harm would result from attempts to prevent those

\(^{17}\) Bowles and Park, 2002.
actions. For example, most liberal societies protect the right to free speech, even though certain forms of speech are manifestly harmful to others. The right to free speech, however, is never absolute. If the prospective harm of unrestricted speech is too great, we impose restrictions, as when we prohibit yelling “fire” in a crowded theater if there is no fire.

The question of whether to restrict actions that cause harm to others requires a careful weighing of the harm caused by the actions themselves against the harm that would be caused by restricting the freedom to act. Ronald Coase won the Nobel Prize in economics in 1991 largely on the strength of his contribution to our way of thinking about this delicate balancing act.¹⁸ My aim is this section is to explore how Coase’s insights might help inform our thinking about public policy toward positional externalities.

Before Coase, it was common for policy discussions of externalities to be couched in terms of perpetrators and victims. A factory that created noise, for example, was a perpetrator, and an adjacent physician whose practice suffered as a result was a victim. Coase’s insight was that externalities like noise or smoke are purely reciprocal phenomena. The factory’s noise harms the doctor, yes; but to invoke the doctor’s injury as grounds for prohibiting the noise would harm the factory owner. It is not the factory owner’s intent to harm the doctor. Nor is it the doctor’s intent to impede the workings of the factory. Their proximity to one another and the nature of their specific activities creates a mutual problem to be solved. Both the factory owner and the doctor, Coase argued, have a shared interest in finding the least costly solution to this problem. He concluded that if they were able to negotiate freely with one another, they would resolve it

¹⁸ Coase, 1960.
efficiently, regardless of whether the government held the factory owner liable for noise damages.

But the deeper message of Coase’s paper was a different one—namely, that when negotiation is for some reason impractical, the state should assign the burden of adjusting to an externality to whichever party can accomplish it at lower cost. For example, if the doctor and the factory owner cannot negotiate, the government should hold the factory liable for noise damage if it is less costly for the factory to reduce its noise than it is for the doctor to move to a more sheltered location. But if the reverse is true, then the government should not hold the factory liable. That posture, Coase reasoned, would induce the doctor to relocate, which under the circumstances would be the efficient solution.

What does Coase’s reasoning have to say about the problem of consumption externalities? To help frame ideas, I begin with a simple example whose details echo many of the issues that arise in the analysis of free speech. Suppose there are some in the population who enjoy wearing purple shirts and others who are offended by the sight of purple shirts. Those who like them would collectively pay up to $1000 for the privilege of wearing them, while those who dislike them would pay up to $2000 to avoid having to see them. If negotiation between the two groups were practical, opponents could compensate those who favor purple shirts for agreeing not to wear them. But suppose negotiation is impractical. Should the state then prohibit the wearing of purple shirts? Since the shirts generate larger costs than benefits by assumption, a prohibition might appear to be the efficient outcome.
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But that reasoning alone is insufficient to justify a prohibition. If it were, the laws of free speech would prohibit most personal insults, which typically impose greater costs on the insultee than benefits on the insulter. In the free speech case, the right to insult others may be defended on at least two other grounds that appear relevant to the purple shirt example. First, the right to speak freely appears to have general value above and beyond the value one might assign to speaking freely on any given occasion. By the same token, the right to choose clothing according to one’s whims of the moment may have general value beyond what one would be willing pay for the right to wear a purple shirt.

A second concern is the need to anticipate the extent to which affected parties might be able to adjust over time to the injuries in question. In a climate in which personal insults are permissible as a matter of right, for example, potential victims of insults might gradually learn to tune them out, or perhaps even alter their behavior and social circumstances to limit their frequency. Similarly, in a climate that defends the individual’s right to wear colors of her own choosing, those who are initially offended by purple shirts might eventually get used to them, or they might tailor their environments to limit exposure to them.

Defending any given right entails both costs and benefits. In the end, questions regarding which specific rights to defend are thus quintessentially practical ones. Having the right to insult to others and the right to choose the color of one’s clothing permits one to cause harm to others. These rights nonetheless appear defensible because the alternatives seem likely to generate greater harm than good. It is in this spirit that I frame my discussion about the extent to which we

19 Holmes and Sunstein, 2000.
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should defend the individual’s right to spend her income in whatever ways she chooses, even in the face of evidence that some forms of spending impose costs on others.

The basic question is whether society should attempt to limit the consumption expenditures of top earners in the interest of constraining expenditure cascades that impose costs on families farther down the income scale. For illustrative purposes, I focus again on the important category of housing expenditures, although virtually the same issues would arise for other goods with strong positional components. Are the losses to top earners from having their expenditures on housing restricted likely to outweigh the gains to middle-class families from such restrictions?

If the only costs associated with expenditure cascades were psychological, middle-income families might in time find means of adjusting to the discomfort they initially experience from living in houses that appear diminished by the increased housing expenditures of others. But even if the capacity to adjust to psychological costs were limited, it might still be best to place the burden of adjustment on those who experience these costs, since the alternative might be interpreted as a tacit invitation to complain.

As noted earlier, however, positional externalities in the housing market also entail far more tangible costs, most notably that failure to keep up with community spending patterns means having to send one’s children to schools of below average quality. The scope for accommodation to such costs seems far more limited. For many families, the best response will be to match the housing expenditures of other families with similar incomes. To do so they may have to save
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less, work longer hours, carry more debt, and commute longer distances, all of which are associated with reduced levels of subjective well-being.20

What about the costs to top earners of spending less on housing? In light of evidence that, beyond some point, the capacity of a house to confer utility depends predominantly on its relative size, there would be little effect on measured levels of subjective well-being among top earners if all had slightly smaller houses. Of course, there might be more general costs associated with the very fact of having their spending options restricted. These costs would depend on the specific instruments by which the restrictions were implemented. A regulatory commission assigned to micromanage the building plans of high-income households might be a costly intrusion. But expenditures might also be restrained in other, less intrusive ways, a point to which I will now turn.

Taxes and Positional Externalities

Although it took several decades, economists finally persuaded policy analysts and legislators to move away from command-and-control environmental regulation in favor of policies that reduce incentives to pollute. Instead of prohibiting firms from polluting, or requiring specific pollution-control technologies, the new approach is simply to tax firms on the basis of how much they pollute (or, equivalently, to require them to purchase effluent permits). As economists had long predicted, the costs of any given level of pollution abatement are far lower under incentive-based systems than under prescriptive regulation.21

20 For a survey of this evidence, see Frank, 1999.
21 For an excellent survey, see Dorris, 1996.
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The problem of excessive environmental pollution is caused by an incentive gap much like the one that gives rise to expenditure cascades. So for essentially the same reasons that effluent taxes are an efficient way of limiting the costs of pollution, the personal income tax may be an efficient way of limiting the costs of expenditure cascades. The expenditure cascade hypothesis suggests that many middle-income families now spend beyond their means because of indirect effects associated with increased spending by top earners. By raising the price of consumption relative to leisure, higher top marginal income tax rates would slow the rate of growth of consumption by families in the highest tax brackets, which, in turn, would slow the pace of expenditure cascades.

The advantage of the tax approach in both domains is its flexibility. In the environmental domain, firms for which pollution reduction is most expensive may find it in their interest to continue to pollute even after the imposition of an effluent tax. Similarly, those high-income families for whom consumption reductions would be especially difficult may respond to higher tax rates by expending additional effort in order to maintain their previous spending levels. But in both the environmental and consumption domains, the relevant externalities depend more on overall activity levels than on the activity levels of particular individuals or firms. And just as the imposition of effluent charges mitigates pollution damage by leading most firms to curtail pollution, higher marginal tax rates would mitigate the costs of expenditure cascades by curtailing spending by most top earners.

Evidence from the happiness literature suggests that no significant reductions in subjective well-being would be experienced by top earners in the wake of an across-the-board reduction in their
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call into question the prevailing assumption that tax policy confronts us with an agonizing tradeoff between equity and efficiency. If expenditure cascades influence middle-income spending patterns in the ways suggested by available evidence, higher marginal tax rates on top earners would appear justified not only on grounds of equity, but also on grounds of narrow economic efficiency.

The tax cuts recently achieved by the Bush administration are based on the view that low tax rates on top earners will stimulate effort and investment, the fruits of which will eventually boost incomes at all levels. Many have found evidence for the trickle-down hypothesis unpersuasive. But even if we accept this hypothesis at face value, lower top marginal tax rates do not imply improved economic welfare. What is certain is that they will spawn across-the-board expenditure increases by top earners. Such increases will serve mainly to raise the standards that define what consumers at all income levels feel they need. And that will mean reduced levels of economic
well-being for middle-income families, even if we set aside the implications of lower tax revenues for the provision of basic public services.

III Concluding Remarks

If higher tax rates on top earners would mean not only a more equitable economy but also a more efficient one, why do the economists advising President Bush continue to push for changes in the opposite direction? One possibility is that even though they recognize that many people care about relative position as an empirical matter, they believe that such concerns are simply not a legitimate basis for public policy. They might be concerned, for example, that to implement policies for curtailing positional externalities could encourage people to give freer reign to destructive emotions such as envy and resentment. Or they might be concerned that recognizing positional externalities as legitimate public policy concerns might provoke attempts to implement sweeping new economic and social regulations. Both concerns merit careful attention.

As for the first, society does in fact have a strong and legitimate interest in maintaining its traditional efforts to keep envy and other destructive emotions in check. After all, as John Rawls and others have argued persuasively, absolute equality is neither an attainable nor even a desirable social goal. It is easy to imagine that if society were to abandon its efforts to discourage envy, ruthless intolerance of even the most minor forms of inequality might quickly emerge.

Envy, however, is not the central issue. Expenditure cascades would continue to occur and would continue to impose large and tangible economic costs on middle-income families even if everyone were completely free of envy. Context influences our assessment of material living
standards for the same kinds of practical reasons that context influences our assessments of
temperature and distance. When context matters, there is simply no presumption that individual
spending decisions give rise to the greatest good for all. To acknowledge the obvious
importance of context is in no way to encourage people to give free reign to feelings of envy.

It is also easy to see why some might fear that treating positional externalities on a par with other
externalities might provoke a wave of intrusive economic and social regulation. After all,
positional externalities are widespread, and our early experience with environmental regulation
provides ample grounds for concern about government interventions that do more harm than
good. Yet we have no reason to believe that acknowledging the legitimacy of positional
externalities would doom us to protracted prescriptive regulation. With the lessons of
environmental regulation fresh in memory, the same pitfalls might be avoided entirely.

The progressive income tax, which is already part of our existing policy arsenal, provides an
instrument for attacking positional externalities in the same way that we now attack
environmental externalities with effluent charges. We already confront the question of how
steeply progressive this tax should be. On the available evidence, increasing its progressivity
relative to the current structure would change expenditure patterns in ways that would result in
greater well-being for consumers across the entire income scale. Yet the current policy debate is
driven by an intellectual framework that continues to insist, contrary to all evidence, that relative
consumption does not matter.
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References


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<tr>
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<th>Occ No</th>
<th>Speaker and Affiliation</th>
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| 1997 | Occ 2  | Professor William Baumol  
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