

Social norms and social influence

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Psychology has a long history of demonstrating the power and reach of social norms; they can hardly be overestimated. To demonstrate their enduring influence on a broad range of social phenomena, we describe two fields where research continues to highlight the power of social norms: prejudice and energy use. The prejudices that people report map almost perfectly onto what is socially appropriate, likewise, people adjust their energy use to be more in line with their neighbors. We review new approaches examining the effects of norms stemming from *multiple* groups, and utilizing normative referents to shift behaviors in social networks. Though the focus of less research in recent years, our review highlights the fundamental influence of social norms on social behavior.

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The most central, useful, powerful set of social psychological ideas is the triumvirate of imitation, conformity, and social norms. Social norms are the foundation of culture, of language, of social interaction, cuisine, love, marriage, play, prejudice, economic exchange and traffic control. The elements of this list are fundamental to human life; the list is endless.

The human organism is built for social norms. The foundations of social norms in imitation and social learning are common to all primates [1], and are especially developed in humans [2*]. Well-developed brain structures support awareness of others (e.g., facial recognition [3]; mirror neurons [4]), and human language capacity [5] are fundamental to social coordination.

Like other primates, humans pay careful attention to others [6], and they imitate what they see [7]. But knowledge of others' actions (or beliefs, emotions, values)

and their imitation is not enough to implicate social norms. Imitation is common enough in many forms of life — what creates the foundation for culture and society is not the imitation, but *the expectation of others for when imitation is appropriate, and when it is not.*

A social norm is an expectation about appropriate behavior that occurs in a group context. Sherif and Sherif [8] say that social norms are 'formed in group situations and subsequently serve as standards for the individual's perception and judgment when he [sic] is not in the group situation. The individual's major social attitudes are formed in relation to group norms (pp. 202–203).' Social norms, or group norms, are 'regularities in attitudes and behavior that characterize a social group and differentiate it from other social groups' [9*] (p. 7).

What do norms do?

Norms not only detail what is appropriate behavior, but these expectations in turn define what the group does, and who the group is. Identity is formed by group norms, and by conforming to them. Deviation from social norms leads first to communication designed to engender conformity [10**], and if social expectations are not met and if the social norm is important, deviation leads to loss of social status or exclusion [11*].

Are there different kinds of norms?

Many psychologists have differentiated among norms and the role they play in social influence. One durable distinction is between norms that simply describe what people in a group do, and norms that describe what people in a group *should* do [12]. Cialdini *et al.* [13**] characterize *descriptive* norms as 'the norms of what is,' a sort of informational summary of how a group behaves, and *injunctive* norms as 'the perception of what most people approve or disapprove (or the norms of *ought*)' [13**] (p. 203).

Different kinds of norms are thought to determine different kinds of influence. Descriptive, informational norms lead to influence through education and conversion — the process of conforming to descriptive norms has been called 'informational social influence,' and the attitudes that form, or behavior that results from this kind of influence is seen as genuine and unstrained. When norms are about what a group considers appropriate, moral, or necessary — injunctive norms — the process of conforming has been called 'normative group pressure,' and the attitudes that form, or behavior that results from this kind of influence is seen as managed, ambivalent, less genuine, and often conflicted [14*].

Recent research provides compelling evidence for the existence of distinct forms of normative influence. Jacobson *et al.* [15[•]] demonstrated that injunctive norms are associated with more interpersonally oriented self-awareness and greater conflict about conformity decisions. Their findings show that exhaustion or depletion leads to decreased conformity to injunctive norm information but *increased* conformity to descriptive norms. Different motivations underlie conformity to descriptive and injunctive norms. In a similar vein, Melnyk and colleagues [16] showed descriptive norms had greater influence under promotion than prevention focus, whereas injunctive norm influence was unaffected by regulatory focus; the psychological underpinnings of conformity differ according to the type of normative information.

Normative influence is fundamental and pervasive; a complete review of their reach — or the research — would be impossible. To illustrate the importance of social norms, we next examine some recent advances in social norm research in two markedly different social domains: prejudice and energy conservation. A review of these quite distinct issues underscores the breadth of influence of social norms on social life, cognition, and behavior (Figure 1).

Prejudice: From the earliest research, social norms have been pointed to as a cause of prejudice, ‘about half of all prejudiced attitudes are based only on the need to conform’ [17] (p. 286). The norms approach emerged as an alternative to personality approaches [18], and research shows very high levels of conformity to norms in the prejudice domain [19^{••}]. The presence of an audience (a normative cue) leads to more normative behavior (e.g., suppressed discrimination [20[•]]); this attentiveness to norms develops around 8–10 years of age [21].

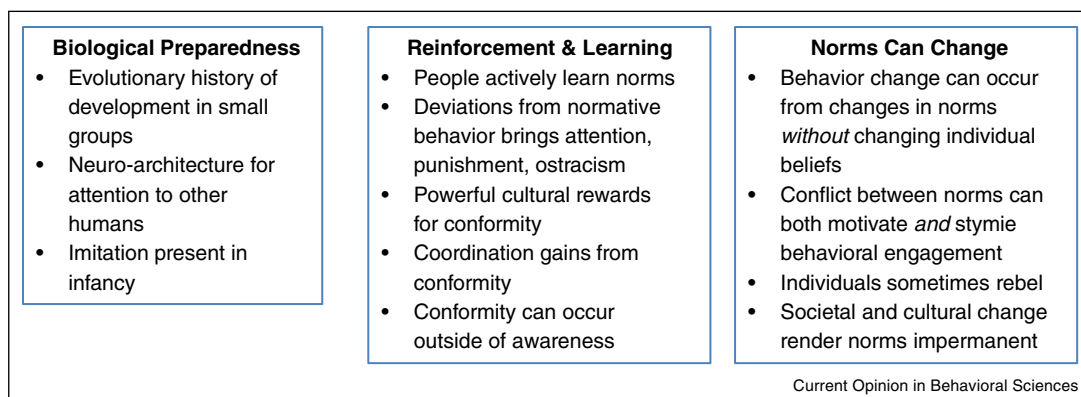
There is reason to believe that a failure to adapt norms in society *causes* prejudice. Crandall *et al.* [22[•]] show that the factors that contribute to the ‘prejudiced personality’ are

mostly measures of the inability or unwillingness to adapt to social change (e.g., cognitive rigidity, low education, traditional religiosity, authoritarianism). They argue that the label ‘prejudice’ is based on changing social norms — a ‘prejudice’ is a negative attitude toward a group that is moving toward greater acceptability (e.g., toward LGBT people), but *not* toward groups with normatively stable social rejection (e.g., toward child molesters) or groups with stable and positive normative positions (e.g., toward White men or philanthropists). Crandall *et al.* [19^{••}] showed that adaptation to social norms leads to the suppression of prejudice; as younger university students came to identify with their school and its norms, they showed growing internal motivation to suppress their prejudices.

One extraordinary example of the role of group norms in prejudice is the work of Paluck [23^{••}], who used radio ‘soap operas’ to reduce ethnic tensions among the Hutus and Tutsis in Rwanda. The soap operas modeled friendly interaction across ethnic lines; exposure to the descriptive norms of the radio shows changed how listeners saw their communities, imitating the modeled behavior, including an increased acceptance of intermarriage, more tolerance of dissent, and more empathy for genocide survivors and prisoners of the Rwandan genocide. These changes occurred in the absence of change in their own attitudes toward the other ethnic group.

Energy use: Early models of energy use and pro-environmental behavior emphasized the importance of attitudes and knowledge [24] rather than social norms. More recently, social norms have become a primary focus of both empirical investigations and interventions to reduce energy use. Schultz and colleagues [25^{••}] showed when people were given feedback on their energy bills indicating that they were using *less* energy than their neighbors, their energy use *increased*. This is a paradoxical result from descriptive norm information; rather than embracing what

Figure 1



The biological basis, and psychological process of conformity to — and deviance from — social norms.

was intended as positive feedback, normative information led families to imitate their (underperforming) neighbors. By contrast, the provision of subtle *injunctive* norms (a smiley face for low energy use) eliminated the negative effects of descriptive information; descriptive and injunctive norms often have distinct psychological impacts.

Research on energy use also suggests that normative influence is generally not detected. Nolan and colleagues [26^{*}] showed that people saved the most energy if the message they received appealed to them to ‘join your neighbors’ in saving energy (implying a norm of energy saving among neighbors), in contrast to other messages that appealed to save the environment or save money. Although the join-your-neighbors message was most influential, when asked about how the messages had impacted their energy use, those who received this normative message rated it as the *least* influential. Social norms have powerful, and often unappreciated, influence on everyday behavioral decisions; their operation can confound intuition and common sense.

Social norms reflect group standards; when a person is in more than one group (e.g., family, friends, colleagues) and the group standards do not align, there is *normative conflict*. McDonald and colleagues [27^{**},28^{*}] showed that for people already invested in environmental protection, conflict among the behavior of different groups of people (conflicting descriptive norms) was associated with an *increased* sense that saving water or saving energy were effective behaviors, participants increased intentions *and* actual conservation behavior. For people not invested in environmental protection, conflicting norms were associated with *decreased* sense that pro-environmental actions were effective, and decreased intentions to engage in behaviors like conserving energy at home. Conflicting norms can polarize people toward their attitudinal predispositions, due to the different attributions people make about the utility of action when considering conflicting norms. When faced with conflicting norms people may attribute reduced efficacy to individual actions, as others are not acting. Conversely, for some the information that not all others are acting may highlight the critical need for them, personally, to act. When making norms salient in persuasive messages, highlighting discrepancies between what different groups of people typically do for the environment can stymie willingness to change among for those most needing to amend their behavior.

Group identification is crucial in understanding the effects of social norms [29^{*}]. Recent research examining the effects of social norms from an identity perspective demonstrates that the type, rather than just the degree, of identification with a group influences whether people will follow a group norm of climate protective behavior, such as conserving energy and eating a vegetarian diet [30^{*}]. For people who felt their groups had climate-protective

norms, willingness to engage in climate protective actions came from seeing the ingroup as important and satisfying, but not seeing ingroup members as similar to the self. Normative interventions are unlikely to be effective merely because they depicts a norm of similar others, but rather require that the group is seen as important to the individual, and is satisfying social needs.

Wide-ranging power of norms

Though we have focussed on prejudice and energy use in this brief review of recent advances in norms research, work highlighting the impact of social norms is abundant in many domains, such as economics [31], health [32], and group therapy [33]. Social norms have also been the basis of a host of impactful behavior change interventions in a range of domains. For example, Paluck and Shepherd [34^{**}] identified ‘social referents’ in a public high school — people who are widely known and served as informal social leaders. These social referents were trained by the researchers, and were used to change social norms and the acceptability of bullying in the schools. Students linked to the referents (people who came in contact with them, shared classes) became less tolerant of bullying; they imitated the modeled behavior. But more importantly, teachers reported significantly less bullying in classrooms with social referents, and bullying became less frequent among students with greater ties to the social referents. By comparison, students with close ties to a different group of social referents who were *not* trained to reduce bullying showed no change over the course of the study.

This review highlights the fundamental importance of social norms for understanding and changing social behaviors from reducing prejudice to increasing energy conservation. From basic processes of social imitation to complex effects of multiple ingroup norms, social norms are a central defining construct in social psychology, across myriad domains. The widespread, impactful, persistent, and often undetected effects of social norms demonstrate that they are fundamental to social behavior, and a necessary target of continuing research.

Conflict of interest statement

Nothing declared.

References and recommended reading

Papers of particular interest, published within the period of review, have been highlighted as:

- of special interest
- of outstanding interest

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2. Tomasello M: **The ultra-social animal**. *Eur J Soc Psychol* 2014, **44**:187-194.
 - This article reviews Tomasello’s research that compares the social and cognitive behavior of the great apes. He begins with the assumption that ‘individuals cooperate with one another in order to better compete for

resources,' and traces out these lines into human forms of sociality and their consequence for human thought and morality.

3. Farah MJ, Rabinowitz C, Quinn GE, Liu GT: **Early commitment of neural substrates for face recognition.** *Cogn Neuropsychol* 2000, **17**:117-123.

4. Kohler E, Keysers C, Umiltà MA, Fogassi L, Gallese V, Rizzolatti G: **Hearing sounds, understanding actions: action representation in mirror neurons.** *Science* 2002, **297**:846-848.

5. Hauser MD, Chomsky N, Fitch WT: **The faculty of language: what is it, who has it, and how did it evolve?** *Science* 2002, **298**:1569-1579.

6. Langton SR, Watt RJ, Bruce V: **Do the eyes have it? Cues to the direction of social attention.** *Trends Cogn Sci* 2000, **4**:50-59.

7. Bandura A, Ross D, Ross SA: **Transmission of aggression through imitation of aggressive models.** *J Abnorm Soc Psychol* 1961, **63**:575.

8. Sherif M, Sherif CW: *Groups in Harmony and Tension; An Integration of Studies in Intergroup Relations.* Harper; 1953.

9. Hogg MA, Reid SA: **Social identity, self-categorization, and the communication of group norms.** *Commun Theory* 2006, **16**:7-30.

This article provides a good introduction the social identity approach to group norms and social phenomena, and focuses in how it can be usefully applied to communication processes. The perception of norms, the communication and diffusion of norms within groups, and the roles of leaders in normative communication are reviewed.

10. Festinger L: **Informal social communication.** *Psychol Rev* 1950, **57**:271-282.

This is the first classic statement of how social norms operate and their connection to communication, conformity, and social rejection. The precise and clear language, depth of analysis, and originality and breadth of the theorizing makes this one of social psychology's most important theoretical papers ever written.

11. Schachter S: **Deviation, rejection, and communication.** *J Abnorm Soc Psychol* 1951, **46**:190-207.

This paper is the classic demonstration that deviation from a group norm leads first to communication aimed at creating conformity, and failing that, deviation leads to social exclusion. This paper shows that important social norms are more carefully policed than unimportant ones, and that conformity and conversion are both rewarded with social approval.

12. Deutsch M, Gerard HB: **A study of normative and informational social influences upon individual judgment.** *J Abnorm Soc Psychol* 1955, **51**:629-636.

13. Cialdini RB, Kallgren CA, Reno RR: **A focus theory of normative conduct: a theoretical refinement and reevaluation of the role of norms in human behavior.** *Adv Exp Soc Psychol* 1991, **24**:201-234.

This highly cited and influential paper brought the issue of norms to the forefront of North American social psychology. It develops of theory of normative focus, and highlights the difference between perceiving what people do (descriptive norms) and what people approve of doing (injunctive norms).

14. Kelman HC: **Processes of opinion change.** *Publ Opin Quart* 1961, **25**:57-78.

This classic paper differentiates among three processes of opinion change due to social influence, compliance (based on anticipated social approval), identification (based on a relationship that decreases individual identity), and internalization (when the change is consistent with the person's value system).

15. Jacobson RP, Mortensen CR, Cialdini RB: **Bodies obliged and unbound: differentiated response tendencies for injunctive and descriptive social norms.** *J Pers Soc Psychol* 2011, **100**:433-448.

This article provides new evidence to support the notion that descriptive and injunctive norms are not psychologically equivalent. The authors demonstrate that depletion differentially affects descriptive and injunctive norms, when self-regulatory resources are scarce, people are less likely to conform to injunctive 'oughts'. In contrast, when depleted, people are more likely to conform to descriptive norms of what others actually do.

16. Melnyk V, van Herpen E, Fischer AR, van Trijp HC: **Regulatory fit effects for injunctive versus descriptive social norms: evidence from the promotion of sustainable products.** *Market Lett* 2013, **24**:191-203.

17. Allport GW: *The Nature of Prejudice.* Addison-Wesley; 1954.

18. Pettigrew TF: **Normative theory in intergroup relations: explaining both harmony and conflict.** *Psychol Dev Soc* 1991, **3**:3-16.

19. Crandall CS, Eshleman A, O'Brien L: **Social norms and the expression and suppression of prejudice: the struggle for internalization.** *J Pers Soc Psychol* 2002, **82**:359-378.

This article shows a very close fit between group norms about the expression of prejudice and group members willingness to express that prejudice (as high as $r = .96$). The key theoretical question is whether people's active suppression of prejudice is due to their attempt to adapt to a valued group's norms; this article concludes that suppression is based on the struggle to internalize social norms.

20. Condor S, Figgou L, Abell J, Gibson S, Stevenson C: **'They're not racist...'** Prejudice denial, mitigation and suppression in dialogue. *Br J Soc Psychol* 2006, **45**:441-462.

This article takes a discourse analysis approach to negotiation and recognition of normatively acceptable and unacceptable speech in conversation.

21. França DX, Monteiro MB: **Social norms and the expression of prejudice: the development of aversive racism in childhood.** *Eur J Soc Psychol* 2013, **43**:263-271.

22. Crandall CS, Ferguson MA, Bahns AJ: **When we see prejudice: the normative window and social change.** In *Stereotyping and Prejudice: Frontiers of Social Psychology.* Edited by Stangor C, Crandall CS. Psychology Press; 2013:53-69.

The authors suggest that adaptation to normative social change defines both what a prejudice is, and how is prejudiced. Social change — when norms change to be more favorable to social groups — leads people slow to change with norms to be labeled as prejudiced. Attitudes toward groups are called a prejudice when the group is moving toward greater social acceptability, but the change is not culturally universal; laggards are considered prejudiced.

23. Paluck EL: **Reducing intergroup prejudice and conflict using the media: a field experiment in Rwanda.** *J Pers Soc Psychol* 2009, **96**:574-587.

This award-winning and ambitious experiment showed how interventions to change norms, but not beliefs, can reduce conflict in situations as important and intractable as the Rwandan genocide. An instant classic.

24. Stern PC: **New environmental theories: toward a coherent theory of environmentally significant behavior.** *J Soc Issu* 2000, **56**:407-424.

25. Schultz PW, Nolan JM, Cialdini RB, Goldstein NJ, Griskevicius V: **The constructive, destructive, and reconstructive power of social norms.** *Psychol Sci* 2007, **18**:429-434.

The authors demonstrate the "boomerang effect" of descriptive norm feedback — those who receive feedback that they are saving more energy than others tend to increase rather than decrease their subsequent energy use. They also show that this effect can be reversed by providing participants with injunctive norm feedback that their low energy use is socially approved of (by placing a smiley face next to the comparative information).

26. Nolan JM, Schultz PW, Cialdini RB, Goldstein NJ, Griskevicius V: **Normative social influence is underdetected.** *Pers Soc Psychol Bull* 2008, **34**:913-923.

The authors demonstrate the power of social norms, and people's lack of insight into their impact on their decisions. Normative messages were more effective in prompting energy saving than other messages that emphasized saving money or saving the environment. However, when asked about the impact of the messages they had received, those who received normative information rated it as the least impactful on their behavior.

27. McDonald RI, Fielding KS, Louis WR: **Energizing and demotivating effects of norm-conflict.** *Pers Soc Psychol Bull* 2013, **39**:57-72.

This paper is the first investigation into the effects of conflicting normative messages from groups one is a member of. Divergent effects of norm conflict are found. For those who hold positive attitudes toward an issue, conflicting descriptive norms enhance their perceptions of the effectiveness of action, presumably by reinforcing the critical need to act. In contrast, for those with less positive attitudes, conflicting norms are associated with reduced perceptions of efficacy and willingness to act, perhaps because the perception that all are not acting makes individual action futile.

28. McDonald RI, Fielding KS, Louis WR: **Conflicting norms highlight the need for action.** *Environ Behav* 2014, **46**:139-162.

This paper highlights that conflicting norms are associated not only with increased intentions to engage in pro-environmental action when an issue is salient or important, but also demonstrates an association between perceived norm conflict and actual conservation behavior in a large community sample.

29. Turner JC: *Social Influence*. Brooks/Cole; 1991.

This is a historical and theoretical review of five research areas of social influence: social conformity, group polarization, minority influence, power, and persuasion. It is extraordinarily well-informed, and culminates in Turner's own view of the matter, emphasizing a unitary approach to social influence based on a self-categorization theory approach. This book is knowledgeable, readable, and ambitious. One need not accept Turner's position to find great value in the book.

30. Masson T, Fritsche I: **Adherence to climate change-related ingroup norms: do dimensions of group identification matter?** *Eur J Soc Psychol* 2014, **44**:455-465.

Masson and Fritsche uncover additional nuances in our understanding of the interplay between group identification and social norms. Their work shows that while greater group identification is associated with greater

willingness to act in line with pro-environmental group norms, it is only the self investment (and not self-definition) component of identification that predicts norm compliance.

31. Azar OH: **What sustains social norms and how they evolve? The case of tipping.** *J Econ Behav Org* 2004, **54**:49-64.
32. Staunton M, Louis WR, Smith JR, Terry DJ, McDonald RI: **How negative descriptive norms for healthy eating undermine the effects of positive injunctive norms.** *J Appl Soc Psychol* 2014, **44**:319-330.
33. Bond GR: **Positive and negative norm regulation and their relationship to therapy group size.** *Group* 1984, **8**:35-44.
34. Paluck EL, Shepherd H: **The salience of social referents: a field experiment on collective norms and harassment behavior in a school social network.** *J Pers Soc Psychol* 2012, **103**:899.

Paluck and Shepherd provide a powerful demonstration of normative influence in a real-life social network context. Key social referents were trained to support anti-bullying norms; students who came into contact with the trained social referents tolerated bullying behavior less, and teachers reported less bullying occurred among these students.