Essentialism Promotes Racial Prejudice by Increasing Endorsement of Social Hierarchies

Tara M. Mandalaywala¹, David M. Amodio¹,², and Marjorie Rhodes¹

Abstract

Why do essentialist beliefs promote prejudice? We proposed that essentialist beliefs increase prejudice toward Black people because they imply that existing social hierarchies reflect a naturally occurring structure. We tested this hypothesis in three studies (N = 621). Study 1 revealed that racial essentialism was associated with increased prejudice toward Blacks among both White and Black adult participants, suggesting that essentialism relates to prejudice according to social hierarchy rather than only to group membership. Studies 2 and 3 experimentally demonstrated that increasing essentialist beliefs induced stronger endorsement of social hierarchies in both Black and White participants, which in turn mediated the effect of essentialism on negative attitudes toward Black people. Together, these findings suggest that essentialism increases prejudice toward low-status groups by increasing endorsement of social hierarchies and existing inequality.

Keywords

race, essentialism, prejudice, intergroup bias, social hierarchy

Humans often view categories as reflecting the underlying natural structure of the environment—a cognitive bias known as psychological essentialism (Gelman, 2003). In the social domain, essentialist thinking can have pernicious implications; essentialism leads people to view members of the same social group (e.g., men, women) as sharing an underlying, inherent nature that causes them to be fundamentally similar in nonobvious, immutable ways (Medin & Ortony, 1989). Although essentialism does not assign positive or negative qualities to particular groupings, it can nevertheless bias intergroup perceptions, leading to prejudice, stereotyping, and discrimination (e.g., Allport, 1954; Haslam, Rothschild, & Ernst, 2002; Yzerbyt, Corneille, & Estrada, 2001). Indeed, White individuals who believe that race has a biological basis—a core component of essentialist beliefs—exhibit greater prejudice toward Blacks (Jayaratne et al., 2006; Williams & Eberhardt, 2008).

In this research, we considered the possibility that essentialism contributes to prejudice by influencing people’s views of societal structure. We propose that essentialism leads people to believe that social categories reflect objective structure in nature, and thus that observed social hierarchies reflect objective differences in status or value (see also Yzerbyt, Rocher, & Schadron, 1997). From this perspective, essentialism promotes prejudice toward groups at lower levels of social hierarchies regardless of the group membership of the holder of these essentialist beliefs. With regard to race, if essentialism promotes the belief that group status differences reflect objective structure in the world, greater essentialism should predict more negative attitudes toward racial groups that are perceived as low status because these groups would be viewed as inherently “worse” than high-status groups. This would occur regardless of one’s own group membership (e.g., essentialism would lead both White and Black individuals to prefer Whites over Blacks).

By contrast, if essentialism serves primarily to define group boundaries, essentialism should predict more negative attitudes toward out-groups irrespective of their place in the hierarchy (e.g., essentialism would lead White individuals to prefer Whites over Blacks and Black individuals to prefer Blacks over Whites). Thus, considering how essentialism relates to prejudice in both Black and White Americans may reveal the mechanisms by which essentialism contributes to intergroup attitudes. Further, this work may shed light on why some Black individuals develop negative attitudes toward their own group—a persistent, early-developing pattern (Clark & Clark, 1947; Shutts, 2015) that has negative consequences (Ratner, Halim, & Amodio, 2013; Utsey, Chae, Brown, & Kelly, 2002).

As essentialism is conceptualized as a cognitive bias (e.g., Gelman, 2003; Medin & Ortony, 1989), we predicted it would most strongly relate to cognitive, belief-based expressions of
prejudice, as assessed using instruments such as the Attitudes Toward Blacks (ATB) Scale (Brigham, 1993; see also Modern Racism Scale: McConahay, 1986; Symbolic Racism Scale: Henry & Sears, 2002). Such measures assess explicitly held beliefs and construals regarding Black people and their personal, social, and political relationships with White people. Thus, if essentialism affects intergroup attitudes by shaping beliefs about social structures and status differentials, then it should underlie these more explicit, cognitive expressions of prejudice. Cognitive forms of prejudice are dissociable from race-biased affective judgments and implicit associations (Dovidio, Brigham, Johnson, & Gaertner, 1996; Dovidio, Kawakami, & Gaertner, 2002; Greenwald, McGhee, & Schwartz, 1998; Mann, 1959; Tropp & Pettigrew, 2005), and because essentialism pertains to a cognitive construal of categories, we did not expect it to relate as strongly to such affective or implicit forms of prejudice.

Pretest

Given the various patterns found between essentialism and prejudice in prior research conducted primarily on White adults (e.g., positive relationship: Jayaratne et al., 2006; Williams & Eberhardt, 2008; no relationship: Bastian & Haslam, 2006; Bastian, Loughman, & Koval, 2011; Haslam et al., 2002), and the wide variety of measures used (e.g., Andreychik & Gill, 2014; Haslam et al., 2002; Williams & Eberhardt, 2008), it was important to determine whether the relation between essentialism and prejudice is reliable in White adults using well-validated indices of essentialism and prejudice.

Participants and Procedures

We recruited 151 participants who self-identified as White (61% female, M_age = 39.1). Participants in all studies were recruited via Amazon’s Mechanical Turk. Sample size was determined based on prior studies examining the relation between essentialism and prejudice toward Black people in predominantly White samples (e.g., Williams & Eberhardt, 2008) using G*Power (Faul, Erdfelder, Buchner, & Lang, 2009). These power calculations indicated the need for approximately 100 participants per study; we sampled above this number to ensure adequate reliable data. Participants first completed a demographics questionnaire (age, sex, racial–ethnic identity), followed by measures of racial essentialism, implicit prejudice, and explicit prejudice, and were debriefed. Prior to beginning, participants were told that only those meeting the selection criteria would be given access to the full study but were not told what the selection criteria were. The pretest and Studies 1 and 2 were administered through SocialSci.com, and Study 3 was administered through Qualtrics.

Measures

Racial essentialism. Participants’ essentialist beliefs about race were assessed with the questionnaire used by Rhodes and Gelman (2009, adapted from Haslam, Rothschild, & Ernst, 2000; see the Supplemental Online Materials). This scale probes multiple components of essentialism, including the naturalness (e.g., race is a natural category), cross-cultural stability (e.g., racial categories are important in all cultures around the world), and inductive potential (e.g., knowing someone’s race tells you a lot about that person) of group membership via 8 items that participants scored from 1 (strongly disagree) to 7 (strongly agree). Ratings were averaged such that higher composite scores indicated greater racial essentialism.

Explicit prejudice. Explicit prejudice toward Blacks was assessed using the ATB Scale (Brigham, 1993), a widely used, highly reliable, and well-understood measure of prejudicial beliefs and attitudes (see Olson & Zabel, 2015) characterized as a cognitive, belief-based expression of prejudice (Dovidio, Esses, Beach, & Gaertner, 2004). Participants rated their agreement, from 1 (strongly disagree) to 7 (strongly agree), with each of 20 statements, such as “I would rather not have Black people live in the same apartment building I live in” and “Some Black people are so touchy about race that it is difficult to get along with them.” Responses were averaged such that higher numbers indicated greater explicit prejudice against Blacks.

Group-based affect. Participants also completed a feelings thermometer (as in Amodio & Devine, 2006), which has been characterized as an affectively based measure of prejudice (Dovidio et al., 2004). On this measure, participants indicated on a scale of 0 (very cold) to 100 (very warm) how they felt toward African Americans and European Americans, separately and in counterbalanced order. For each thermometer, a higher value indicated relatively more positive affect toward the focal group, allowing us to examine anti-Black affect independently of pro-White affect.

Implicit prejudice. Implicit prejudice was assessed using the Implicit Association Test (IAT; Greenwald et al., 1998). The IAT measures the strength of mental associations between social categories of White and Black people and positive relative to negative concepts. Following two initial training blocks, in which participants practiced the classification of words and faces separately, participants completed two different types of critical trials (organized in two blocks each). On “compatible” trials, White faces and positive words were classified with one key, and Black faces and negative words were classified with the other key. On “incompatible” trials, Black faces and positive words were classified with one key, and White faces and negative words were classified with the other key. These critical blocks were completed in counterbalanced order and were separated by a face-only training block.

The IAT D scores were computed following Amodio and Devine (2006; adapted from Greenwald, Nosek, & Banaji, 2003), such that positive scores reflect a relative pro-White/anti-Black association and negative scores reflect a pro-Black/anti-White association. Preliminary analyses revealed that D differed significantly from zero, t(141) = 14.62, p < .001 (M = 0.50, standard deviation [SD] = 0.41), indicating moderate anti-Black/pro-White bias. Because D scores did not
differ as a function of block order, order was not included as a factor in reported analyses.

Exclusions. Data were excluded from analysis if the participant represented extreme values (> 3 SD from the mean) on any measure (6); these exclusions yielded a final sample size of 145. Additionally, participants who responded too fast (less than 300 ms) or too slow (greater than 2,500 ms) on 10% or more trials on the IAT (3) were excluded from analyses involving the IAT (Greenwald et al., 2003).

Results
Our central hypothesis was that greater essentialism would be associated with stronger racial prejudice, as assessed by the ATB. Indeed, this pattern emerged, \( r(145) = .52, p < .001 \) (Figure 1a), conceptually replicating previous findings. In exploratory analyses investigating how racial essentialism related to affective dimensions of prejudice, we found that racial essentialism was associated with greater implicit prejudice toward Blacks, \( r(142) = .22, p = .009 \) (Figure 1b). Essentialism was not significantly associated with pro-White, \( r(145) = .12, p = .15 \), or pro-Black, \( r(145) = -.08, p = .34 \), affect on the feelings thermometers. Although essentialism related to prejudice as assessed by both the ATB and the IAT, it is notable that this effect was larger for the ATB than the IAT, \( z = 2.96, p = .003 \).

Discussion
Consistent with previous research in predominantly White samples (e.g., Jayaratne et al., 2006; Williams & Eberhardt, 2008), stronger endorsement of essentialist beliefs was correlated with prejudiced attitudes, as measured by a cognitive, belief-based measure, and was also modestly associated with implicit evaluation. This finding provided a foundation for an analysis that included Black participants.

Study 1
In Study 1, we tested the relation between racial essentialism and prejudice toward Blacks among both Black and White participants. If essentialism, as hypothesized, leads to prejudice by strengthening the belief that social hierarchies reflect objective structure to the world, then racial essentialism should relate to greater belief-based prejudice toward low-status groups regardless of participants’ race.

Participants and Procedures
Participants included 294 adults who self-identified either as African American/Black (\( n = 142, 63\% \) female, \( M_{age} = 33.6 \)) or as White (\( n = 152, 61\% \) female, \( M_{age} = 39.6 \)). Across Studies 1–3, those who did not self-identify as White or as African American/Black were not able to participate further. Participants completed the same measures as in the pretest, and our primary outcome variable was ATB score. Although we found no relationship between essentialism and an affective measure of prejudice (i.e., feelings thermometers) in the pretest, we included feelings thermometers in all subsequent studies to explore whether essentialism related to this form of prejudice in Black participants (Study 1) or whether it varied in response to experimental manipulation of essentialism (Studies 2 and 3; see Supplemental Online Materials for analyses). Data were excluded if scores were extreme (greater than 3 SDs from the mean) on any variable (5 Black, 4 White), yielding a final sample of 285 (Black: \( n = 137 \), White: \( n = 148 \)).

Results
Preliminary analyses (Table 1) revealed that Black participants exhibited more racial essentialism than White participants. White participants expressed marginally greater prejudice toward Blacks on the ATB, yet, on average, ATB scores for
White and Blacks were both below the scale midpoint (reflecting relatively low prejudice overall). Although White participants also expressed greater implicit prejudice toward Blacks on the IAT compared with Black participants, it is notable that the Black participants’ degree of anti-Black implicit bias was also significant, $t = 2.92, p = .004, d = .50$.

Using regression analysis, we next tested the main and interactive effects of participant race (−1 Black, 1 White) and essentialism on each measure of prejudice. In our focal analysis of ATB scores, both main effects were significant: White participants expressed more explicit prejudice toward Blacks than Black participants, $\beta = .18, p = .001$, and more importantly, given the present questions, essentialism was related to explicit prejudice, $\beta = .50, p < .001$. The interaction was also significant, $\beta = .14, p = .008$ (Figure 2); simple slope analyses revealed that essentialism significantly related to greater prejudice among both White, $\beta = .56$, $p < .001$, and Black, $\beta = .43$, $p < .001$, participants, but that the magnitude of this effect was greater for Whites. These results are consistent with the hypothesis that essentialist thinking relates to prejudice toward Black Americans by enhancing endorsement of social hierarchies.

In the analysis of IAT score, the only significant effect was for participant race, $\beta = .42, p < .001$. No effects emerged for essentialism, $\beta = .07, p = .22$, or the interaction, $\beta = .06, p = .26$. However, when data for White and Black participants were analyzed separately, we found a marginal relationship between essentialism and IAT $D$ score in White participants, consistent with Study 1, $\beta = .14, p = .09$, and no relationship for Black participants, $\beta = .005, p = .95$.

### Discussion

In this study, essentialism related to more negative attitudes toward Blacks, as assessed by the ATB, among both White and Black participants, providing preliminary support for the possibility that essentialism increases prejudice toward low-status groups (regardless of a participant’s own group membership) by strengthening the beliefs that status differences reflect objective structure in the world. We next moved on to experimental tests of this hypothesis.

### Study 2

In Study 2, we conducted a direct test of our hypothesis by examining the causal effects of essentialism on both prejudice and endorsement of social hierarchies by experimentally manipulating essentialist beliefs. If essentialism promotes the belief that social groups and hierarchies reflect objective, unchangeable structure in the world, then this view should be expressed in terms of increased hierarchy endorsement (see also Jost & Burgess, 2000; Pratto, Sidanius, Stallworth, & Malle, 1994). Thus, we tested whether increasing the salience of essentialist beliefs leads to increased hierarchy endorsement and whether hierarchy endorsement mediates the effect of essentialism on prejudicial attitudes.

### Participants and Procedures

We recruited 219 participants who self-identified as African American/Black ($n = 111$, 67% female, $M_{\text{age}} = 32.1$) or White ($n = 108$, 52% female, $M_{\text{age}} = 37.2$).

**Essentialism manipulation.** After completing a demographics form, participants were randomly assigned to a pro- or anti-essentialism condition and asked to read one of the two fictional science news articles about the biological basis of race (adapted from Williams & Eberhardt, 2008, see also Chen &

### Table 1. Means and Independent t Test Results for Black and White Participants in Study 1.

<table>
<thead>
<tr>
<th>Measure</th>
<th>Black Participants Mean (SD)</th>
<th>White Participants Mean (SD)</th>
<th>$t$</th>
<th>$p$</th>
<th>$d$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essentialism Scale</td>
<td>3.78 (1.29)</td>
<td>3.43 (1.14)</td>
<td>-2.44</td>
<td>.01</td>
<td>.29</td>
</tr>
<tr>
<td>Attitudes Toward Blacks Scale</td>
<td>2.27 (0.71)</td>
<td>2.43 (0.83)</td>
<td>1.80</td>
<td>.07</td>
<td>.21</td>
</tr>
<tr>
<td>Implicit Association Test</td>
<td>0.10 (0.41)</td>
<td>0.46 (0.38)</td>
<td>7.61</td>
<td>&lt;.001</td>
<td>.90</td>
</tr>
</tbody>
</table>

Note. SD = standard deviation.

![Figure 2. Relationship between racial essentialism and prejudice on belief-based attitudes toward Blacks (Attitudes Toward Blacks predicted values from regressions) in White ($n = 148$) and Black ($n = 137$) participants. Higher values indicate greater racial essentialism and greater prejudice toward Blacks. The solid line indicates White participants and dashed line indicates Black participants.](image-url)
Hamilton, 2012). Participants were told the study concerned how technical information is conveyed to nonscientists via the media. Participants were randomly assigned to read either a pro-essentialism (Scientists pinpoint genetic underpinnings of race) or anti-essentialism (Scientists reveal that race has no genetic basis) article. Upon completion, they answered an attention check question.

**Measures.** Participants completed a Social Dominance Orientation-6 (SDO-6) Scale (Pratto et al., 1994; see also Jost & Thompson, 2000), which assessed participants’ endorsement of the social hierarchy. The scale included 16 items (e.g., “It’s probably a good thing that certain groups are at the top and other groups are at the bottom”), which participants rated from 1 (strongly disagree) to 7 (strongly agree). These ratings were averaged such that higher scores indicated greater hierarchy endorsement. Participants then completed the dependent measures used in Study 1.

**Exclusions.** Data were excluded if the participant failed the attention check (11 Black, 16 White), exceeded the typical time to complete the study (1 White), or represented extreme values on any of the dependent variables within a given condition (1 Black, 4 White), yielding a final sample size of 188 (Black n = 99, White n = 89).

**Results**

**Effects of Essentialism on Hierarchy Endorsement and Prejudice**

A series of two-way analysis of variance (ANOVARs) were conducted to determine the effects of essentialism condition (anti- or pro-essentialism) and participant race (White or Black) on hierarchy endorsement and prejudice toward Blacks. As predicted, hierarchy endorsement was increased in the pro-essentialism condition ($M_{pro} = 2.30, SD_{pro} = 1.00$) relative to the anti-essentialism condition, $M_{anti} = 1.90, SD_{anti} = 0.86$, $F(1, 184) = 9.07, p = .003, \eta^2_p = .05$. There were no main, $F(1, 184) = 1.00, p = .32, \eta^2_p = .05$, or interactive, $F(1, 184) = 0.68, p = .41, \eta^2_p = .004$, effects of participant race, indicating that pro-essentialism information led to greater endorsement of social hierarchies among both White and Black participants.

On the ATB, White participants ($M_{White} = 2.34, SD_{White} = 1.18$) expressed greater prejudice toward Blacks than did Black participants ($M_{Black} = 1.97, SD_{Black} = 0.83$), $F(1, 184) = 6.84, p = .01, \eta^2_p = .04$. In support of our hypothesis, participants in the pro-essentialism condition ($M_{pro} = 2.33, SD_{pro} = 1.14$) expressed greater prejudice than those in the anti-essentialism condition ($M_{anti} = 1.94, SD_{anti} = 0.84$), $F(1, 184) = 8.51, p = .004, \eta^2_p = .04$. The interaction was also significant, $F(1, 184) = 6.89, p = .009, \eta^2_p = .04$ (Figure 3); pairwise comparisons indicated that White participants in the pro-essentialism condition ($M_{pro} = 2.74, SD_{pro} = 1.31$) reported substantially more explicit prejudice than Whites in the anti-essentialism condition ($M_{anti} = 1.94, SD_{anti} = 0.88$), $F(1, 184) = 14.60, p < .001, \eta^2_p = .11$. By contrast, there was no effect of essentialism condition on attitudes for Black participants, $F(1, 184) = 0.04, p > .83, \eta^2_p = .001$. That is, the manipulation of essentialism affected ATB scores of White participants but not those of Black participants.

On the IAT, $D$ scores were higher among White ($M_{White} = 0.46, SD_{White} = 0.39$) than Black ($M_{Black} = 0.12, SD_{Black} = 0.48$) participants, $F(1, 182) = 26.56, p < .001, \eta^2_p = .13$. However, there were no main, $F(1, 182) = .60, p = .44, \eta^2_p = .003$, or interactive, $F(1, 182) = 0.35, p = .55, \eta^2_p = .002$, effects of essentialism.

**Mediation Analysis**

Because the essentialism manipulation influenced prejudiced attitudes on the ATB only among White participants, we tested our proposed mediation model among White participants only, using the PROCESS bootstrapping macro (Hayes, 2012), with 2,000 resamples. A 95th percentile confidence interval was computed to test the significance of the indirect effect.

As noted above, essentialism was a significant predictor of hierarchy endorsement, $b = .53, SE = .22, t = 2.40, p = .02$, as well as ATB scores, $b = .79, SE = .24, t = 3.34, p = .001$. Moreover, hierarchy endorsement was associated with ATB scores, $b = .85, SE = .08, t = 11.03, p < .001$. When essentialism and hierarchy endorsement were both included in an analysis predicting ATB scores, hierarchy endorsement was a significant predictor, $b = .81, SE = .08, t = 10.37, p < .001$, above and beyond essentialism, $b = .37, SE = .16, t = 2.25, p = .03$. Importantly, a test of mediation indicated a significant indirect effect, 95% CI [.08, .82], $\kappa^2 = .21$ (Preacher & Kelley, 2011), consistent with the hypothesis that essentialism increases prejudice by enhancing hierarchy endorsement (Figure 4).
We tested whether the effect of essentialism on negative attitudes toward Blacks in Black participants is mediated by increased endorsement of social hierarchies, as we found for White Americans in Study 2.

**Participants and Procedures**

We recruited 108 participants who self-identified as African American/Black (67% female, \(M_{\text{age}} = 30.2\)). Participants completed a demographics form, were randomly assigned to a pro- or anti-essentialism condition, and then completed the measure to assess hierarchy endorsement, followed by the ATB.

Data were excluded from analysis if the participant failed the attention check (9) or represented extreme values on any of the dependent variables within a given condition (1). These exclusions yielded a final sample size of 98.

**Results**

**Effects of Essentialism on Hierarchy Endorsement and Prejudice**

As in Study 2, a one-way ANOVA produced a significant effect of essentialism on hierarchy endorsement scores, \(F(1, 96) = 6.40, p = .013, \eta^2_p = .06\), such that scores in the pro-essentialism condition (\(M_{\text{pro}} = 2.69, SD_{\text{pro}} = 1.22\)) were higher than those in the anti-essentialism condition (\(M_{\text{anti}} = 2.11, SD_{\text{anti}} = 0.99\)).

A separate one-way ANOVA on ATB scores revealed a marginal effect of essentialism, \(F(1, 96) = 2.88, p = .09, \eta^2_p = .03\), such that the pro-essentialism condition produced stronger anti-Black prejudice (\(M_{\text{pro}} = 2.56, SD_{\text{pro}} = 1.14\)) than the anti-essentialism condition (\(M_{\text{anti}} = 2.19, SD_{\text{anti}} = 1.01\)). Although marginal, this effect is consistent with the correlational pattern observed in Study 1 for Black participants, as well as the effect of essentialism on anti-Black attitudes among White participants in Study 2.

**Mediation Analysis**

Although the direct effect of essentialism on ATB scores was marginal, it was possible that essentialism might indirectly influence participants’ attitudes through changes in hierarchy endorsement. Thus, we tested for a pattern of mediation as in Study 1, where essentialism affected prejudice through the mediation of hierarchy endorsement.
Study 2. This analysis revealed that essentialism predicted hierarchy endorsement scores, $b = .57, SE = .23, t = 2.53, p = .01$, and marginally predicted ATB scores, $b = .37, SE = .17, t = 1.72, p = .09$. Furthermore, hierarchy endorsement was associated with ATB scores, $b = .82, SE = .05, t = 17.34, p < .001$. When essentialism and hierarchy endorsement were both included in the model predicting ATB scores, the effect for hierarchy endorsement remained significant, $b = .84, SE = .05, t = 17.38, p < .001$, and the effect of essentialism was reduced, $b = -.11, SE = .11, t = -1.00, p = .32$. Importantly, a test of the indirect effect was significant, 95% CI [.11, .85], $\chi^2 = .34$, suggesting that, as with the White participants of Study 2, hierarchy endorsement mediated the relation between essentialism and explicit ATB prejudice in Black adults (Figure 5).

Discussion

Study 3 confirmed that essentialism causally relates to hierarchy endorsement in Black participants, replicating the pattern observed in Study 2. The induction of essentialist beliefs led to marginally more negative attitudes on the ATB in Black participants, suggesting that essentialist thinking can influence attitudes toward Blacks even among Black individuals. Moreover, a test of mediation produced a significant indirect effect of essentialism on racial attitudes through changes in hierarchy endorsement. By demonstrating this pattern among Black participants, these data provide strong support for the hypothesis that essentialism increases prejudice toward lower status groups by increasing endorsement of social hierarchies.

General Discussion

The present research investigated the processes through which essentialism leads to prejudice. In particular, we considered the possibility that essentialism influences not just beliefs about individuals and groups but also beliefs about how groups are arranged in the social hierarchy (e.g., Yzerbyt et al., 1997). According to this hypothesis, essentialism should relate to greater prejudice toward Blacks among both Black and White perceivers given the lower relative status of African Americans in American society. Indeed, racial essentialism was associated with increased belief-based forms of prejudice toward Black people in White participants (Studies 1 and 2) and Black participants (Studies 1 and 3), and this effect occurred by increasing participants’ endorsement of social hierarchies (Studies 2 and 3). Moreover, by manipulating essentialist beliefs in Studies 2 and 3, these results revealed a causal effect of essentialism on social hierarchy endorsement, which in turn explained the effect of essentialism on prejudice. These findings suggest that by leading individuals to view social hierarchies as objectively determined and natural, essentialism increases the tendency to endorse, and perhaps perpetuate, existing hierarchies through continued prejudice toward lower status social groups.

Our research additionally offers a new explanation for why Black individuals sometimes express negative attitudes toward their own group. That is, essentialism—a domain-general cognitive tendency that does not directly pertain to attitudes—can be readily applied to beliefs about race in a way that may lead Black individuals to devalue their racial group through endorsement of social hierarchies. Although an experimental test of this proposed mediator would clarify the hypothesized process (as in Guimond, Dambrun, Michinov, & Duarte, 2003; Kteily, Sidanius, & Levin, 2011), these studies suggest a novel theoretical account for how essentialism may perpetuate anti-Black prejudice. By elucidating the role of hierarchy endorsement, our findings identify an unexamined source of Black in-group devaluation and suggest a new approach to buffering Black individuals from its effects. Moreover, while this study focused on anti-Black attitudes, the links between essentialist beliefs, hierarchy endorsement, and negative attitudes toward lower status social groups suggests that this general framework might explain negative attitudes toward other social groups perceived to be low status as well.

Although our findings demonstrate that essentialism can lead to more negative attitudes toward minorities among both White and Black individuals, essentialism is a multifaceted construct, and includes components that could relate to more positive attitudes as well. Holding a strong, positive racial identity has been associated with improved behavioral and physiological outcomes (e.g., academic achievement: Altschul, Oyserman, & Bybee, 2006; mental health: Sellers, Copeland-Linder, Martin, & Lewis, 2006; physiology: Ratner et al., 2013). Although the links between essentialist beliefs and positive racial identity have not been established, increased essentialism may relate to more positive racial identity, given that essentialism comprises, in part, the beliefs that category membership is stable and indicative of in-group similarity. In this case, in addition to
increasing endorsement of social hierarchies, essentialism could bolster in-group identity, perhaps explaining why we found a smaller relation between essentialism and anti-Black prejudice in Black than White participants. Our understanding of how and when essentialism affects intergroup attitudes will benefit from further tests of how specific facets of essentialism affect particular forms of intergroup attitudes.

More broadly, this research demonstrates the implications of essentialism for anti-Black prejudice, extending the theoretical scope of how essentialism affects intergroup attitudes, by affecting perceptions and beliefs about social hierarchies. Furthermore, while past work suggests that reducing essentialism should reduce prejudice, our findings reveal that a consideration of social structures, and a group’s place within them, is needed to best utilize essentialism-based interventions.

Acknowledgments
We thank Melissa Williams for providing experimental materials for Studies 2 and 3.

Declaration of Conflicting Interests
The author(s) declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

Funding
The author(s) disclosed receipt of the following financial support for the research, authorship, and/or publication of this article: Research reported in this publication was supported by the Eunice Kennedy Shriver National Institute of Child Health and Human Development under Award Number R01HD087672. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.

Supplemental Material
The online data supplements are available at http://journals.sagepub.com/doi/suppl/10.1177/1948550617707020.

Notes
1. In addition to our primary measure of essentialism, we used three additional measures of essentialism for exploratory purposes for future studies aiming to compare racial essentialism in children and adults: the visitor task (Kalish, 1998; Rhodes & Gelman, 2009) and the switched at birth task (Hirschfeld, 1995), commonly used in developmental research, and the Race Conceptions Scale (RCS; Williams & Eberhardt, 2008). Exploratory analyses demonstrated that our primary measure of essentialism was positively correlated with the RCS, \( r(145) = .64, p < .001 \), as well as the visitor task, \( r(145) = .16, p = .05 \).
2. After rating African and European Americans, participants were asked to complete two additional feelings thermometers for Asian and Latino Americans, separately and in counterbalanced order. Participants’ ratings on these thermometers were not analyzed for this study.
3. Across all studies, results did not change significantly from those presented here when excluded participants were included in analyses.
4. As expected, Attitudes Toward Blacks (ATB) scores were significantly higher in the streamlined procedure in Study 3 (\( M = 2.40, SD = 1.09 \)) than in Study 2 (\( M = 1.97, SD = 0.83, t(1, 202) = 9.93, p = .002, r^2_{p} = .05 \)), supporting the concern that Implicit Association Test completion may have reduced the sensitivity of the subsequently administered ATB.

References


**Author Biographies**

Tara M. Mandalaywala is a postdoctoral fellow of psychology at New York University. Her research examines how beliefs about social groups and status hierarchies shape intergroup relations, from both a comparative and developmental perspective.

David M. Amodio is a professor of psychology at the University of Amsterdam. His research investigates the psychological and neural mechanisms of social cognition and self-regulation, particularly as they contribute to prejudice, stereotyping, and discrimination.

Marjorie Rhodes is an associate professor of psychology at New York University. Her research examines conceptual development and the development of social cognition.