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How ideological migration geographically segregates groups

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HIGHLIGHTS

• We examine how people segregate themselves by ideology.

• When liberals live in conservative areas, they migrate to more liberal areas.

• When conservatives live in liberal areas, they migrate to more conservative areas.

· These effects are mediated by sense of belonging in one's community.

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Introduction

ABSTRACT

Here, we advance the ideological migration hypothesis — individuals choose to live in communities with ideologies similar to their own to satisfy their need to belong. In Study 1, incongruity between personal and community ideology predicted greater residential mobility and attraction to more ideologically-congruent communities. In Study 2, participants who perceived their ideology to be at odds with their community's displayed a decreased sense of belonging and an increased desire to migrate. In Studies 3 and 4, participants induced to view their current community as growing more incongruent with their own ideology expressed a decreased sense of belonging and an increased desire to migrate. Ideological migration may contribute to the rise in cultural, moral, and ideological segregation and polarization of the American electorate.

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People tend to live in communities with others who have similar racial and ethnic backgrounds, who have similar lifestyles and personalities, and who adhere to similar political and religious creeds (Dixon & Durrheim, 2003; McPherson, Smith-Lovin, & Cook, 2001; Rentfrow, Gosling, & Potter, 2008). Recently, clustering along political lines has gained media attention as this geographic separation has led to a clear inability to find national consensus on big issues (Avlon, 2010; Greenblatt, 2012). This ideological clustering is a recent phenomenon of the past few decades (Abramowitz, 2012; Bishop, 2008), and given what psychologists know about the effects of segregation (e.g., Deutscher, 1948), this geographical division along ideological lines is a likely contributing factor to the partisanship and rancor that is currently paralyzing the United States' government (Burr, 2013). How these homogeneous communities emerge is unclear. The present paper suggests that this de facto segregation might emerge as people strive to satisfy basic psychological needs.

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One possible explanation for the emergence of these homogeneous enclaves is that people are "born into it". This is easy to understand with racial composition; racial enclaves can emerge via reproduction across generations. It is also conceivable with personality and ideology. Personalities and ideologies are shaped by the cultures - macro and micro - that people inhabit (Markus & Kitayama, 1991). Each of these possibilities proposes that environments affect their inhabitants. But, the reverse causation may also occur. People may also change their environments. People with certain racial identities, personalities, and ideologies may feel like their needs are not being met in one residence, so they could choose to change residences to better satisfy these needs. For example, following social rejection and institutional persecution, the Pilgrims sailed the Mayflower across the Atlantic Ocean in pursuit of a home where they felt that their religious values would be accepted (Philbreck, 2007). This extreme example illustrates the idea that people may leave places where they feel incapable of satisfying basic psychological needs, like the need to belong (Baumeister & Leary, 1995). This may also help explain why people in certain occupations are migrating to communities where many of the residents have similar occupations (Florida, 2008) and people with certain personality traits are migrating to communities where many residents have similar traits (Rentfrow et al., 2008). Consistent with the idea of ideological migration, we

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are increasingly seeing communities segregated by ideology as well (Abramowitz, 2012; Bishop, 2008).

In the present article, we provide evidence that perceptions of fitting in with the ideological composition of one's community may motivate both moving away from those that are incongruent and moving toward those that are congruent with one's ideological orientation. The longterm consequence is the gradual *construction* of segregated and polarized ideological enclaves via migration, rather than this occurring exclusively via reproduction and cultural indoctrination.

Migration

Roughly half of the population changed their residence between 1995 and 2000 (Schmitt, 2001) and an estimated 40-50 million Americans move each year (Florida, 2008). Understanding how people make these residential migration decisions is complex (Greenwood, 1985; Oishi, 2010). Employment, family, finances, personality, and temperament all influence migration (Jokela, 2008; Jokela, Elovainio, Kivimäki, & Keltikangas-Järvinen, 2008; Winstanley, Thorns, & Perkins, 2003). People likely make these decisions in ways that help them pursue their goals. For example, experts in particular occupations tend to move to communities seeking such specialists (Florida, 2004), and extroverts may move to communities with more socially-stimulating environments (Furnham, 1982). In these cases, the migrants may be assuming that the residents living in their destination communities are similar to them in some important ways, as people generally are attracted to similar others (Byrne, 1971). Certain types of similarity may be more attractive than others. For example, moral value similarity is important in selecting friends (Haidt, Rosenberg, & Hom, 2003), teammates in the workplace (Guillaume, Brodbeck, & Riketta, 2012), and neighbors (Putnam, 2007). So, one influence on migration may be the desire to seek environments where there are more similar others on specific important characteristics such as lifestyle, values, and political ideology (Byrne, Clore, & Smeaton, 1986; Karylowski, 1976; Werner & Parmelee, 1979).

A complementary possibility is that people move away from communities based on feeling repulsed by the preponderance of dissimilar others (Rosenbaum, 1986). People may migrate when they feel they do not belong in their current community. In some cases, people may find the ideology of their current community disgusting, ideologicallyobjectionable, or threatening, eliciting unpleasant existential anxiety (Crawford, 2012; Haidt & Graham, 2007; Motyl, in press; Motyl, Vail, & Pyszczynski, 2009; Schimel, Hayes, Williams, & Jahrig, 2007). When coping with these aversive states, people's natural reaction involves trying to reduce the aversive state. When evaluating residential options, people may be especially inclined to move away from communities with ideologies that are incongruent with their own.

It is natural for people to desire communities where they share a worldview with their neighbors, allowing for a shared understanding of social life and binding people together into sacred groups that may help them to feel like something greater than a single mortal being (Motyl et al., 2011; Pyszczynski, Greenberg, & Solomon, 1997; Vail, Arndt, Motyl, & Pyszczynski, 2012). When people perceive a lack of belonging, they exhibit impaired academic and athletic performance, mental and physical health, and reduced civic and political participation (Anderson, 2009; Leary, 2009; Major & O'Brien, 2005; Putnam, 2000; Sheldon & Bettencourt, 2010; Walton & Cohen, 2011). Ideological symbols may induce a sense of belonging for adherents of a given ideology. For example, in the presence of Christian symbols, non-Christians exhibit reduced subjective well-being. This reduction in subjective well-being was mediated by the sense that they did not belong in that setting (Schmitt, Davies, Hung, & Wright, 2010). This lack of fit is undesirable for many, but fortunately, some people have a means to resolve a lack of ideological fit between person and community; they can pack up and move.

In sum, perceived similarity with communities may lead people to migrate away from dissimilar communities and toward similar communities. In the current research, we propose the ideological migration hypothesis — individuals that have the flexibility to do so will tend to choose communities with ideological worldviews similar to their own in order to satisfy their need to belong. From this hypothesis, we develop three key predictions: (a) misfit between the person's and the community's ideological worldviews will engender increased migration; (b) fit between the person's and prospective community's ideological worldviews will engender increased migration; (c) this migration motivation will be driven by people's need to belong.

Ideology and migration

Community-level data provide preliminary support that people are migrating away from ideologically misfit communities and toward ideologically fit ones. For example, communities are growing more morally and politically homogeneous (Bishop, 2008; Bishop & Cushing, 2008). These aggregate-level data, though, do not clarify the psychological processes contributing to migration. The correlational, aggregate community data do not, for example, address the possibility that the moral values of the majority group in a given community are gradually adopted by the minority group through social influence (Asch, 1956; Cialdini & Goldstein, 2004; Festinger, 1963; Harton & Bullock, 2007; Latane, 1981; Sinclair, Lowery, Hardin, & Colangelo, 2005).

While social influence may have an impact on worldviews, we believe that some part of the explanation for the correlation is that people perceive an ideological misfit with their own community and select new communities that are a better ideological fit. How people identify the ideological matrix of a community is unclear. Historically, people have not been particularly knowledgeable about the moral and political values of their communities (Converse, 1964; Carpini & Keeter, 1996), but this may be changing as Americans seem to be growing increasingly ideological (Jost, 2006). Discerning between ideological communities may have grown easier over recent decades, as ideological identities have become more expansive to include not only political party membership, but also beliefs about human nature, attitudes, religious denomination, and personality (Abramowitz, 2012; Caprara, Barbaranelli, & Zimbardo, 1996; Jost, Glaser, Kruglanski, & Sulloway, 2003; Tompkins, 1965). Drawing on contemporary and historical political theories (e.g., Burke, 1790/2003, Mill, 1859/2003; Sowell, 2007), ideological orientation can be viewed as a simple, proxy indicator of many variables, including a person's broader non-political worldview. Ideology predicts variation in moral foundations, and these foundations predict partisan identification, political attitudes, policy preferences, and voting behavior (Graham et al., 2011; Inbar, Pizarro, Iyer, & Haidt, 2012; Iyer, Graham, Koleva, Ditto, & Haidt, 2010; Koleva, Graham, Ditto, Iyer, & Haidt, 2012). People with liberal ideologies prioritize individualism and protecting individuals from injustice. In contrast, people with conservative ideologies prioritize group cohesion and orthodoxy. Perhaps liberal and conservative communities have physical characteristics that convey different ideological identities.

At the individual level, for example, people with liberal and conservative ideologies construct their bedrooms and offices by displaying different types of decorations and organizing their possessions in distinct ways (Carney, Jost, Gosling, & Potter, 2008). It is unlikely that people have the capability to decorate and organize their broader community in this way, but community characteristics may vary according to the dominant ideology of that community. Communities with liberal ideologies do tend to have more organic food markets, bicycle trails, and a greater proportion of hybrid automobiles on the road (Chinni & Gimpel, 2010). In contrast, communities with conservative ideologies do tend to have more "big box" stores, a higher gun store-to-bookstore ratio, and a greater proportion of sport utility vehicles on the road. It is possible that these characteristics enable people to discern the ideological leanings of communities.

The present studies

We tested the ideological migration hypothesis using four different methods and samples. In Study 1, with a large sample of liberals and conservatives, we found evidence that participants who had resided in a community that was misfit with their own ideological identities were disproportionately likely to migrate, and that their new locations better fit their ideological worldviews. In Study 2, with a different large sample of liberals and conservatives, we found evidence that people who perceived their community as not fitting with their own ideological worldviews expressed a greater desire to migrate. Furthermore, Study 2 demonstrated that the relationship between perceived ideological fit and the desire to migrate was fully mediated by sense of belonging. In Study 3, with a university sample of liberals and conservatives, we found experimental evidence that participants led to think that their university was becoming less fitting with their ideological worldview expressed a greater desire to transfer. Again, the effect of perceiving ideological fit on the desire to transfer was fully mediated by sense of belonging. In Study 4, we experimentally manipulated participants' ideology and replicated the effects from Study 3, showing that ideological fit is important, even for people with experimentallyassigned ideologies.

Study 1: Ideological migration in big data

Participants

Participants were 1,010,008 U.S. residents (58% female, 42% male) who visited the Project Implicit website (http://implicit.harvard.edu/) between December 15, 2006 and May 10, 2010 and volunteered to take an Implicit Association Test (IAT; Greenwald, Schwartz, & McGhee, 1998) examining implicit preference for different presidents (n = 191,695), presidential candidates (n = 76,672), racial groups (n = 465,295), or sexual orientations (n = 276,809).¹ Only the participants' demographic reports from these data collections, including postal codes, were relevant for the current purposes. Data collection at Project Implicit is continuous. The date range and data were selected to be sufficiently large to ensure high precise estimation of effects.

Participants ranged in age from 18 to 90 (M = 35.23, SD = 12.57) and was politically diverse (25% conservative, 25% neutral/moderate, and 50% liberal). The sample included residents of all 50 states and Washington, D.C. (ns ranged from 1973 in Wyoming to 119,644 in California).²

Materials and procedure

Participants completed an IAT, a brief questionnaire related to the topic of the IAT, and a short demographic questionnaire in a random order. For this study, we used only three items from the demographic questionnaire: self-reported political ideology on a 7-point Likert-type item ranging from 1 (Strongly Liberal) to 7 (Strongly Conservative) with the midpoint 4 (Neutral), the zip code where they resided for the greatest length of time, and the zip code of their current residence. Only participants who responded with interpretable data for all three items were included in the analyses.³

To estimate the ideological climate of participants' prior and current communities, we combined these data with Riskind and Motyl's (2012) social climate database drawn from the 2010 census and other sources.

The social climate database included the census zip code tabulation area⁴ voting percentage for President Obama and Senator McCain in the 2008 Presidential election.⁵

Results

Data preparation

Participants were divided into two groups — those who had moved and those who had not. Movers were those who reported different current and longest-lived zip codes. This means that non-movers included people who had moved previously, but who have lived longer in their current zip code than in any other — i.e., a stable resident for our purposes. Also, in a small percentage of cases, zip codes could have changed without the person moving. However, this is rare and unlikely to affect the present analyses in any systematic way. Of the 1,010,008 participants, 589,879 (58%) of them reported having moved to a different zip code by this criterion.

Do people who have values different from those of their communities show a greater likelihood of moving to a new community?

We first tested whether ideological fit predicted moving to a different community. To do so, we conducted a hierarchical logistic regression. In the first step, we entered participant age, education, gender, and race, and community population, rural-urban commuting score, population, per capita income, percent of residents who are white, and percent of residents who hold at least a bachelor's degree.⁶ In the second step, we regressed migration (0 = did not migrate, 1 = migrated) on the participants' political ideology, community vote percentage for Senator McCain, and the interaction term between these two variables retaining their rational zero points (i.e., the rational zero point for each variable indicates the variables conceptual midpoint: for political orientation, "Independent/Moderate" is the conceptual midpoint, and for community vote percentage for President Obama, 50% is the conceptual midpoint).⁷ Independent of ideological fit, conservatives were less likely to migrate than liberals, B = -.31, SE = .002, Wald = 13889.39, $p = 5.13 \times 10^{-7}$, Exp(B) = 0.69, 95% CI = 0.687 to 0.693. For every unit increase in conservatism, there was a 31% decrease in the log odds of moving. Further, people living in zip codes with higher vote percentages for President Obama were more likely to migrate than people living in zip codes with lower vote percentages for President Obama,

¹ The substantive results do not differ across the different tasks, so we report it as a single dataset.

² We only included participants in this sample who had not previously completed an IAT or other study on the Project Implicit website.

³ Most participants provided other demographic information, too. While these demographic variables do predict migration, they are not central to the current hypotheses and, when controlling for these variables, the pattern of effects presented in the results section do not change. See Supplementary material for these analyses.

⁴ Zip Code Tabulation Areas (ZCTAs) are slightly different from Zone Improvement Plan (ZIP) codes. ZCTAs correspond to census block boundaries but ZIP codes do not. Therefore, the government only has information on resident demographics at the ZCTA and not ZIP code level. There is a considerable overlap between ZCTAs and ZIP codes, but some vary slightly (see US Census Bureau ZIP Code Tabulation Area, 2012). This variation introduces some error into the present data making relationships harder to detect.

⁵ In recent decades, voting preferences of communities are quite stable. Across Presidential elections, the vote percentage for the Democratic or Republican candidates correlates at .90 or higher (see Abramowitz, 2012). Given this stability, data from any recent election should result in very similar findings. Furthermore, community vote percentage for President Obama correlated almost perfectly negatively with vote percentage for Senator McCain (r = -.99).

⁶ Men and older participants were slightly less likely to have reported different zip codes. More educated participants were more likely to have migrated. White participants were more likely to have migrated than black participants. The percent of white people living in the participants' previous zip code predicted a decreased likelihood of having migrated. The percent of people living in the participants' previous zip code who held at least a bachelor's degree predicted a slightly decreased likelihood of having migrated. Population of and per capita income in the participants' previous zip code did not predict likelihood of migration. For coefficients, see Supplementary material.

⁷ As these data rely on data from individuals living in geographic clusters (zip codes), we considered using multilevel modeling. However, the samples from most clusters were very small. The sample sizes per zip code ranged from 1 to 1116, with a mode of 3. Furthermore, there was no relationship between observations within each cluster (intraclass correlation < .001). Thus, the parameter estimates in the logistic regression are not biased by any nesting of these data. Furthermore, the multilevel random coefficient modeling yielded the same results as the single-level logistic regression.</p>

B = -.09, SE = .003, Wald = 966.71, $p < 1.0 \times 10^{-7}$, Exp(B) = 1.09, 95% CI = 1.08-1.10. For every vote percent increase in support for President Obama, there was an 8.5% increase in the odds of moving. Lastly, there was a significant interaction between political ideology and vote percentage for President Obama, B = .37, SE = .002, Wald = 24656.90, $p < 1.0 \times 10^{-7}$, Exp(B) = 1.31, 95% CI = 1.306 to 1.315. This effect accounted for about 11% of the variability in migration behavior, Nagelkerke's $R^2 = .11$ (see Fig. 1). To decompose this interaction, we ran separate logistic regressions predicting the odds of migration from the vote percentage for President Obama in the participants' prior ZCTA for each of the seven political ideologies (see Table 1). As predicted, as the community vote percent for President Obama in participants' prior ZCTA increased, conservatives show increased odds of migrating and liberals show decreased odds of migrating. By contrast, as the community vote percent for President Obama in the participants prior ZCTA decreased, conservatives show decreased odds of migrating and liberals show increased odds of migrating. Community vote percentage for President Obama in the participants' prior ZCTA was more predictive of migration for people who were more extremely liberal or conservative than for people who leaned slightly toward liberal or conservative, or people who identified as "neutral/moderate."

Do migrants move to communities more aligned with their ideological worldview?

We next examined whether migration predicts increased alignment between personal and community ideological values. As predicted, among participants who migrated, their personal political ideology was more strongly associated with the percent of the vote President Obama received in their current ZCTA, r(589879) = .252, p < 1.0×10^{-7} (95% CI: .250 to .254), than with the percent of the vote President Obama received in their prior ZCTA, r(589879) = .01, p = 4.0×10^{-6} (95% CI: 012 to .008; difference between correlations, z = 145.30, p < 1.0×10^{-7}).

Discussion

Partisan participants who previously lived in communities with values different from their own were more likely to migrate than those who lived in communities with values similar to their own. Further, among those who migrated, personal ideology was more strongly associated with the current community's political ideology than their prior community's political ideology.

The likelihood of migration was particularly large among strong liberals and strong conservatives. About 80% of participants living in ideologically misfit communities moved, whereas only about 50% of participants living in ideologically fit communities did so. Further,

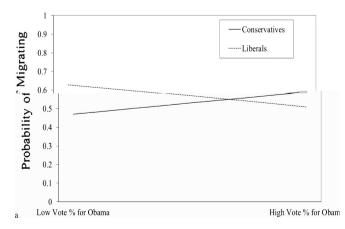


Fig. 1. Probability of moving for liberals and conservatives as a function of the actual vote percentage for President Obama in their zip code (\pm 1 SD projected means).

moderates did not show a particular tendency to move into moderate communities. If anything, moderates were less likely to migrate at all. This may suggest that moderates' values may be less discrepant with their communities' values, which may prevent them from perceiving that they do not fit. Alternately, ideological fit might be less relevant to moderates' decisions about migration.

The most critical limitations of these data are that they are correlational and retrospective. An obvious alternative explanation is that personal ideologies change to align with one's present community rather than leading them to move to that community. We cannot rule this out completely, but this alternative explanation is undercut by the data pattern of likelihood of migration based exclusively on previous community. If personal ideology shifted to align with the current community, why would current ideology predict the likelihood of having moved from the prior community in the first place? Nonetheless, it would be useful to have evidence that is not open to the reverse causal scenario. In addition, Study 1 does not provide information regarding any psychological mechanism underlying the link between misalignment of ideological values and migration. We address the limitation of the retrospective nature of Study 1 and the lack of psychological mechanism in Study 2. We will address the causal direction issue in Studies 3 and 4.

Study 2: Perceiving a lack of ideological fit increases migration desires

Study 2 explores potential psychological mechanisms that might underlie this ideological migration effect. Specifically, Study 2 tests the degree to which participants can accurately infer their community's ideological identity and the degree to which that community identity aligns with their personal ideologies. We hypothesized that perceiving ideological fit may foster a sense of belonging and that people are less likely to move when their need to belong is satisfied. In contrast, if people perceive that their communities hold ideological identities at odds with their own, they will not feel a sense of belonging and this will inspire them to seek out a different community that might better satisfy their need to belong.

Method

Participants

Participants consisted of 1236 people residing in the United States (48% female, 52% male) who registered with the research website YourMorals.org. Over 99% of participants used unique IP addresses to access this study and no IP address was used more than twice by participants in this study, indicating that participants came from separate physical locations. During the registration process, participants complete a brief demographic questionnaire. After registering, participants who elected to complete the "Community Preferences Questionnaire" study were directed to the present study. The items used in the present analyses were identified opportunistically from a different project being conducted on that website in the spring of 2012; the other measured variables in that project were not analyzed and are available upon request from the authors. Participants ranged in age from 18 to 88 (M = 42.15, SD = 16.07) and political orientation from Very Liberal to Very Conservative (251 Very Liberal, 438 Liberal, 175 Slightly Liberal, 159 Moderate, 66 Slightly Conservative, 94 Conservative, 53 Very Conservative). Participants received no compensation for completing the study, but did receive feedback on how their scores compared to other liberals and conservatives.

Materials and procedure

The "Community Preferences Questionnaire" study asked participants how desirable different features of communities were (e.g., the

Table 1	
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	Summary of separate logistic regressions for each	political ideology predicting migration from orig	in community vote percentage for President Obama.
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	В	SE	Wald	Exp(B)	95% confidence interval	Nagelkerke's R ²	Ν
Strongly liberal	-0.46	0.008	2949.78	0.41	0.405-0.415	0.17	152,530
Liberal	-0.34	0.006	2887.38	0.59	0.586-0.595	0.13	247,952
Slightly liberal	-0.22	0.009	557.41	0.76	0.755-0.765	0.08	104,807
Neutral/moderate	0.06	0.006	125.44	1.06	1.055-1.065	0.04	244,706
Slightly conservative	0.48	0.01	2408.71	1.38	1.375-1.385	0.11	89,676
Conservative	0.56	0.008	4703.95	1.43	1.425-1.435	0.14	122,634
Strongly conservative	0.56	0.013	1942.41	1.42	1.417-1.425	0.13	47,703

Note. All regression models are significant, $ps < 1.0 \times 10^{-7}$.

presence of many bookstores, Wal-Marts, a disproportionate number of hybrid cars on the road). Those data were collected for a different project and were not included in the present analyses. Within that study, however, participants read two statements ("I feel like I belong in my current city/town," and "I would like to live somewhere else.") and indicated their agreement on a scale from 1 (Strongly Disagree) to 6 (Strongly Agree). Then, participants estimated the percentage of residents in their current city/town who share the same basic political values as them, using a slider scale ranging from 0 to 100%. This estimate served as a measure of perceived ideological fit; higher scores reflected greater ideological fit. Participants also reported their most recent, previous zip code, their current zip code, and the duration of time that they lived in their current zip code. All of the items in this questionnaire were presented in a random order. We used voting percent for President Obama in 2008 to determine actual ideological fit with their current community using the same social climate database from Study 1 (Riskind & Motyl, 2012).

Results

Is ideological misfit between self and community associated with a greater desire to move to a new community?

First, we examined the relationship between ideological fit and desire to migrate by conducting a hierarchical linear regression including age, gender, and socioeconomic status in the first step, and then political ideology, the 2008 vote percent for President Obama in their current ZCTA, and the interaction between these two variables, standardized with their rational zero points retained, in the second step, predicting the desire to migrate.⁸ Together, these variables significantly predicted desire to migrate, F(3, 1232) = 16.68, $p < 1.0 \times 10^{-7}$, and accounted for about 11% of the variation in responses, $R^2 = .11$.

To assess the individual contributions of each of the predictors, we examined the t-ratios for each. Liberalism predicted the desire to migrate, *unstandardized* B = .14, SE = .04, t = 4.01, p = 2.2×10^{-5} , sr² = .014. Conceptually replicating Study 1, more liberal respondents reported a stronger desire to move than more conservative respondents. The percent of residents voting for President Obama in the current ZCTA was not related to the desire to migrate, unstandardized B = -.01, SE = .005, t = -1.68, p = .09, sr² = .003. Furthermore, there was the predicted significant interaction between political orientation and vote percent for President Obama in the current ZCTA, unstandardized B = .26, SE = .06, t = 4.27, p = 2.3×10^{-5} , sr² = .016 (see Fig. 2). Simple slope analyses reveal that, consistent with our hypotheses, as the percentage of residents voting for President Obama in the participants' current ZCTA increased, liberals' desire to migrate decreased, unstandardized B = -.27, SE = .03, t = -3.99,

 $p = 3.1 \times 10^{-5}$, and conservatives' desire to migrate increased, unstandardized B = .25, SE = .03, t = 4.08, $p = 2.9 \times 10^{-5}$.^{9,10}

Perceived ideological fit is associated with actual ideological fit

In these data, actual fit is determined using the percent of people voting for President Obama in the participants' current ZCTAs of residence. This could differ from the extent to which a person perceives that their current community fits with their personal ideology. If perceived ideological fit reflects actual ideological fit, then we should see a positive correlation between perceived fit and vote percentage for President Obama in the participants' current ZCTA among liberals, and a negative correlation between perceived fit and vote percentage for President Obama in the participants' current ZCTA among conservatives. Indeed, for liberals, perceived ideological fit with one's current ZCTA positively correlated with the percent of people voting for Obama in their prior ZCTA slightly (r(896) = .24; 95% CI = .18 to).30) and their current ZCTA strongly (r = .62; 95% CI = .56 to .68). For conservatives, perceived ideological fit with one's current ZCTA negatively correlated with the percent of people voting for President Obama in their past ZCTA slightly (r(190) = -.15; 95% CI = -.03 to)-.27) and their current ZCTA more strongly (r(190) = -.37; 95% CI = -.23 to -.49). Furthermore, there is a positive correlation between actual and perceived ideological fit (r(1236) = .52, 95%)CI = .48 to .56). This shows that (a) perceived fit and actual fit are related, and (b) that fit is stronger comparing with one's current community than one's prior community, as expected (see Table 2 for correlations between these variables).

Perceived ideological fit is associated with the desire to migrate

To test whether perceived ideological fit and political ideology predicted desire to migrate, we conducted a hierarchical linear regression with perceived ideological fit and political ideology in the first step and the interaction term between them in the second step. The overall regression including perceived ideological fit, political ideology, and their interaction was statistically significant, $R^2 = .08$, F(3, 1232) = 36.54,

⁸ 94% of participants in this sample reported two different zip codes, rendering this variable nearly a constant. Thus, we proceeded using the self-reported desire to migrate rather than inferred past migration as in Study 1.

⁹ These effects persist even when controlling for the participants' duration of residence at their current ZCTA. Duration of residence was a small predictor of reduced desires to migrate and increased sense of belonging, accounting for about 1% of the variance for each of these outcome variables.

¹⁰ The control variables significantly predicted migration desires. Specifically, older participants reported lower migration desire than younger participants. Wealthier participants reported greater migration desire than less wealthy participants. Gender did not significantly predict migration. Examination of results within sub-groups indicated that these relationships were consistent across groups. The interaction between political orientation and vote percent for President Obama was significant for men (B = -.11, p = .03) and women (B = -.19, p = .003), younger (B = -.14, p = .01) and older participants (B = -.24, p = .01), and those above midpoint on self-perceived socioeconomic status (B = -.24, p = .001). The only exception was the lower SES group. The predicted interaction was not significant for those below the midpoint in socioeconomic status (B = -.05, p = .35), despite a similar, albeit less steep, pattern of slopes as those among participants above the SES midpoint.

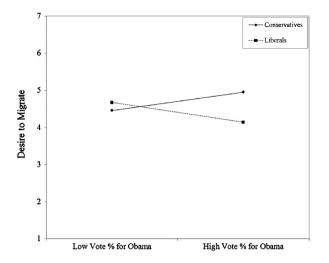


Fig. 2. Liberals and conservatives desire to migrate as a function of the actual vote percentage for President Obama in their zip code (± 1 SD projected means).

 $p < 1.0 \times 10^{-7}.$ Together, these predictors explained 8% of the variance in people's desire to migrate.

To examine the contributions of the individual predictors, we examined the t-ratios for each. In the first step, we found that perceived ideological fit predicted desire to migrate (unstandardized B = -.02, SE = 0.003, t = -7.03, p < 1.0×10^{-7} , pr² = .04). Specifically, the more people perceived misfit with their community, the more they wanted to migrate. Liberalism predicted increased desires to migrate, but accounted for substantially less variance (unstandardized B = .06, SE = 0.03, t = 2.12, p = .03, pr² = .004). There was no interaction between perceived ideological fit and political ideology, (unstandardized B = -.06, SE = 0.05, t = -1.20, p = .23, pr² = .00). That is, regardless of participants' political ideology, perceived misfit was associated with greater desire to move out of the current community.

Perceived ideological fit predicts feelings of belonging

Next, we tested whether perceived ideological fit and political ideology predicted how much participants felt like they belonged in their communities. We first conducted a hierarchical linear regression with ideological fit and political ideology in the first step and the interaction term between them in the second step. The overall regression was

Table 2

Correlations between measured variables in Study 2.

statistically significant, $R^2 = .19$, F(3, 1232) = 94.64, p < 1.0×10^{-7} . Together, these predictors explained 19% of the variance in people's belonging scores.

To examine the contributions of the individual predictors, we examined the t-ratios for each of the regression slopes. In the first step, perceived ideological fit predicted a greater sense of belonging (B = -.41, SE = 0.028, t = 14.04, p < .001, pr² = .16). Liberalism predicted a slightly reduced sense of belonging (unstandardized B = -.07, SE = 0.03, t = 2.46, p = .01, pr² = .004). These ratios suggest that the greater ideological fit people perceive in their community, the more they feel like they belong in that community.

In the second step, we observed a significant interaction between perceived ideological fit and political ideology, (unstandardized B = .13, SE = 0.05, t = 2.48, p = .01, pr = .004, ΔR^2 = .01). Simple slope analyses reveal that ideological fit had a slightly larger effect on liberals' sense of belonging (unstandardized B = .94, SE = .04, t = 14.02, p < .001) relative to conservatives' sense of belonging (unstandardized B = .69, SE = .04, t = 11.55, p < .001). Importantly, this interaction effect accounts for considerably less variance than the main effect of ideological fit on sense of belonging (R² = .01 vs. R² = .16).

Sense of belonging mediates the relationship between ideological fit and desire to migrate

To test the possibility that sense of belonging mediates the relationship between perceived ideological fit and personal political ideology on the desire to migrate, we conducted a mediation analysis following Baron and Kenny's (1986) recommendations. This method is among the most stringent tests of mediational hypotheses (see Judd & Kenny, 2010; MacKinnon, Fairchild, & Fritz, 2007). First, a regression analysis confirmed the effect of ideological fit on sense of belonging, unstandardized B = -.43, SE = 0.028, t = -14.48, p < .001, pr² = .17. A second regression confirmed the effect of ideological fit on the desire to migrate, unstandardized B = .26, SE = 0.03, t = 8.30, p < .001, pr^2 = .07. A third regression confirmed the relationship between sense of belonging and the desire to migrate, unstandardized B = -.60, SE = 0.02, t = -27.53, p < .001, pr² = .31. Finally, a regression including ideological fit and sense of belonging predicting the desire to migrate showed that ideological fit was no longer a significant predictor of the desire to migrate (unstandardized B = .02, SE = .03, t = 0.81, p = .42), while the hypothesized mediator, sense of belonging, remained a significant predictor (unstandardized B = -.56,

		1	2	3	4	5	6
Overall	1. Current ZIP Obama vote %		.40**	.63**	.46**	.25**	16**
n = 1236	2. Previous ZIP Obama vote %			.40**	.17**	.05*	07^{*}
$CI = \pm .04$	3. Actual fit				.52**	.25**	27^{**}
	4. Perceived fit					.43**	30^{**}
	5. Sense of belonging						57 ^{**}
	6. Desire to migrate						
Liberals	1. Current ZIP Obama vote %		.38**	.92**	.62**	.35**	22 ^{**}
n = 896	2. Previous ZIP Obama vote %			.38**	.24**	.10**	09*
$CI = \pm .06$	3. Actual fit				.60**	.35**	22**
	4. Perceived fit					.52**	32 ^{**}
	5. Sense of belonging						57**
	6. Desire to migrate						
Conservatives	1. Current ZIP Obama vote %		.39**	93**	37**	14^{*}	.07
n = 190	2. Previous ZIP Obama vote %			36**	15*	07	.01
$CI = \pm .12$	3. Actual fit				.42**	.15*	.14*
	4. Perceived fit					.33**	23**
	5. Sense of belonging						57**
	6. Desire to migrate						

CI = 95% Confidence Interval computed for the overall sample, and separately for each subgroup of the sample using the different sample sizes.

* p < .05. ** p < .01.

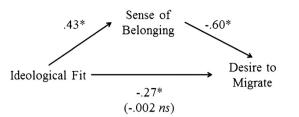


Fig. 3. Sense of belonging mediates the relationship between ideological fit and desire to migrate.

SE = .03, t = -19.40, p < .001). Sobel's significance test for mediation supported this hypothesis, Sobel's z = -14.19, p < .001. See Fig. 3.¹¹

Discussion

Study 2 provides correlational evidence supporting our hypothesis that a perceived lack of ideological fit reduces one's sense of belonging that, in turn, increases one's desire to migrate. Also, the findings show that perceptions of ideological fit are related to actual ideological fit – at least as indexed by political support for Democratic versus Republican presidential candidates at the level of ZCTA. Furthermore, Study 2 conceptually replicated the findings of Study 1 and extended them to a different large and diverse sample. Finally, the results suggest that simply perceiving a lack of ideological fit may be enough to increase the desire to migrate to a new community.

The findings in Study 2 are consistent with the ideological migration hypothesis and with the data presented in Study 1, but the causal conclusions remain limited by the fact that the data are correlational. Thus, in Study 3, we experimentally manipulated ideological fit to test the causal effect of fit on desire to migrate.

Study 3: Ideological fit influences migration desires

In Study 3, we experimentally manipulated the perceived ideological worldview of one's community and then assessed their desire to migrate. Students read about the changing ideological worldview of their university and then answered questions about their sense of belonging at the university and desire to transfer. For some, the changes increased community fit with their ideology; for others, the changes decreased community fit with their ideology. This permits a strong test of the ideological migration hypothesis, as students have already chosen to attend a university and transferring is an indicator of the desire to move out of the current living environment for college students. Once people have chosen one course of action, such as which university to attend, they will view that decision more favorably and be less willing to relinquish the identity that came with that decision, such as being a student at that university (i.e., cognitive dissonance and the endowment effect; Brehm, 1956; Kahneman, Knetsch, & Thaler, 1990). Therefore, desire to transfer must compete with the psychological processes that foster attachment and commitment to one's community.

Method

Participants

Participants consisted of 102 undergraduate students (62 female, 40 male) at the University of Virginia, ranging in age from 18 to 30 (M = 19.37, SD = 1.54), who self-identified as liberal (n = 63) or conservative (n = 39) on a department-wide demographic pre-test. Our sample size was designated to be as many as we could collect from the department participant pool in the spring semester of 2012. Participants received partial course credit in exchange for their participation in this study.

Materials and procedure

Participants came into the laboratory and were informed that they would be reading a news article and then providing their reactions. Participants read one of three versions of a news article, titled "The Changing Political Landscape of Colleges," that contained four paragraphs. The first three paragraphs were identical across conditions.

Talking heads have been discussing how the political landscape in the United States has been changing in recent decades where liberals and conservatives have been moving into communities that are increasingly liberal and conservative, respectively. Bill Bishop, author of *The Big Sort*, has compiled data demonstrating how Americans have been sorting themselves into homogeneous communities — "not just at the regional level, or the red-state/blue-state level, but at the micro-level of city and neighborhood, too."

Robert Putnam, author of *Bowling Alone: The Collapse and Revival of American Community*, suggests that this tendency may actually have positive health consequences, as people are finding themselves in communities where people share their values and where they do not need to fear being criticized for the beliefs about contentious political issues like global warming, intelligent design, and same-sex marriage.

Researchers from US News and World Report, who release an annual report on the best colleges and provide advice to high school students on how to select the best college for them, found that the political landscapes of universities have been changing, too. While universities tend to be more liberal than conservative, these researchers found an emerging polarization at many schools. Students are becoming more liberal and more conservative, with fewer students identifying as "moderate" or "neutral."

The fourth paragraph contained the critical manipulation, providing information on which colleges were becoming more liberal and which were becoming more conservative. Specifically, the article paragraph stated:

The upcoming 2012 edition of the US News and World Report on colleges and universities ranks Liberty University in Virginia as the most conservative and Macalester College in Minnesota as the most liberal. They noted that among large universities, the University of Virginia [Penn State University/University of Kansas] appears to be increasingly attractive to conservatives and Penn State University [University of Virginia] appears to be increasingly attractive to liberals. At the current rate of high school and university transfer applications, the University of Virginia will be one of the few universities where the majority of students are conservative and the Penn State University will have the highest percentage of liberal students relative to the number of conservative students.

In the control condition, the University of Virginia was not mentioned and the article claimed that the University of Kansas and Penn State University were the most rapidly changing institutions.

¹¹ We tested the reverse mediation model, which was a counter to our hypothesis, to further clarify the relations between the variables. Following the same approach, we conducted a regression showing the significant direct effect of ideological fit on the desire to migrate (*unstandardized* B = .42, SE = 0.028, t = 14.48, p < .001, pr² = .17), another regression showing that the desire to migrate is a significant predictor of sense of belonging (*unstandardized* B = .-.57, SE = 0.026, t = -21.71, p < .001, pr² = .32). A final regression with both ideological fit and desire to migrate predicting sense of belonging showed that both ideological fit (unstandardized B = .2.9, SE = .0.3, t = 11.43, p < .001, pr² = .12) and desire to migrate (*unstandardized* B = .-.49, SE = .0.3, t = -19.40, p < .001, pr² = .27) remained significant independent predictors of sense of belonging rediction of both ideological fit and desire to migrate shows that desire to migrate cannot completely account for the relationship between ideological fit and feeling of belonging. As such the reverse mediation pattern is a less parsimonious account of the relations among variables than our preferred account.

After participants read the article, they completed a brief questionnaire. The first question asked, "How satisfied are you at the University of Virginia?" and response options ranged from 1 (Very dissatisfied) to 6 (Very satisfied). Seven questions assessed participants sense of belonging ("I feel like I belong at my current university," "I am comfortable at the University of Virginia," "I am glad I chose to attend the University of Virginia," "I have a lot of school spirit," "I feel at home at my school," "The people at my university accept me," and "I feel welcomed at the University of Virginia.") on a 6-point Likert-type item ranging from 1 (Definitely Not) to 6 (Definitely), Cronbach's $\alpha = .85$. Then, participants completed two questions assessing the desire to transfer from the university ("I have considered/would consider transferring from the University of Virginia," and "I would like to be a student at a different university," r(96) = .56). Finally, participants were asked to estimate the percentage of students at the University of Virginia who shared their political values ("What percent of students at UVa do you believe share your political beliefs?"). As in Study 2, this estimate served as the index of perceived ideological fit. The correlations between the measured variables are documented in Table 3.

Results

Manipulation check

We examined whether the manipulation altered the perceived ideological fit using a 2 (Liberals vs. Conservatives) \times 3 (UVa Becoming More Liberal vs. UVa Becoming More Conservative vs. Control) between subjects ANOVA. Liberals perceived that a higher percentage of people shared their values (M = 49.13, SD = 16.57) than did conservatives (M = 41.11, SD = 17.04), regardless of manipulation condition, F(1, 94) = 6.59, p = .012, η_p^2 = .07. The manipulation had no significant main effect on perceived percentage of people sharing participants' values, F(2, 94) = 0.12, p = .88, $\eta_p^2 = .003$. There was, however, the predicted significant interaction between political orientation and the ideological fit manipulation, F(2, 94) = 14.95, $p = 2.0 \times 10^{-6}$, $\eta_p^2 = .24$. Simple main effect analyses showed that when liberals read that UVa is becoming more liberal, they perceived that a greater percentage of students at UVa shared their values (M = 60.43, SD = 12.27) than when conservatives read that UVa is becoming more liberal (M = 29.64, SD = 17.15), F(1, 94) = 33.69, p = 1.0×10^{-6} , $\eta_p^2 = .26$. When liberals read that UVa is becoming more conservative, they perceived a marginally lower percentage of students at UVa who shared their values (M = 41.96, SD = 12.14) than when conservatives read that UVa is becoming more conservative $(M = 50.92, SD = 15.67), F(1, 94) = 3.02, p = .08, \eta_p^2 = .03$. Liberals (M = 46.68, SD = 19.71) and conservatives (M = 44.09, SD = 6.25)did not significantly differ in the control condition, F(1, 94) = 0.21, $p = .65, \eta_p^2 = .002.$

Because we were interested in testing the effect of ideological fit vs. ideological misfit on the desire to transfer, we combined the personal ideology and experimental condition variables to create the independent variable with three levels: (a) ideological fit condition: liberal participants in the UVa becoming more liberal condition and conservative participants in the UVa becoming more conservative condition; (b)

Table 3

^c p < .001.

Intercorrelations between measured variables in Studies 3 and 4.

	Study 3			Stud		
	1	2	3	1	2	3
1. Perceived fit		.34*	28*		.10	17
 Sense of belonging Desire to transfer 		·	62*			53*

Study 3's 95% confidence interval around the correlations is \pm .32. Study 4's 95% confidence interval around the correlations is \pm .36.

ideological misfit condition: liberal participants in the UVa becoming more conservative condition and conservative participants in the UVa becoming more liberal condition; and (c) control condition. This independent variable did not interact with political orientation, F(2,94) = 0.84, p = .44, $\eta_p^2 = .01$ showing that we did not lose an important explanatory factor by simplifying the conditions. It did, however, demonstrate the predicted effect on perceived ideological fit, F(1, 94) = 14.26, p = 4.0×10^{-6} , $\eta_p^2 = .23$. Participants in the ideological fit condition reported greater perceived ideological fit (M = 56.24, SD = 14.50) than control participants (M = 45.73, SD = 16.05), who perceived greater ideological fit than participants in the ideological misfit condition (M = 37.30, SD = 15.39), ps < .013. Thus, the experimental manipulation of perceived ideological fit was effective in changing the perception that the university community shared their ideological values, and this manipulation operated similarly for both liberal and conservative participants.

Decreasing ideological fit increases the desire to transfer

We tested whether decreased ideological fit would increase desires to transfer from UVa. In a one-way ANOVA, decreasing ideological fit increased desire to transfer, F(2, 99) = 8.00, p = .001, $\eta_p^2 = .14$. Tukey's HSD test revealed that participants in the ideological misfit condition expressed significantly elevated desires to migrate (M = 2.86, SD = 1.71) relative to the participants in the ideological fit (M = 1.72, SD = 0.85; p = .001; *Cohen's d* = 0.85) and control (M = 1.85, SD = 1.18; p = .002; *Cohen's d* = 0.68) conditions. The ideological fit and control conditions were both within one standard deviation of the bottom of the scale and did not significantly differ from one another, p = .59 (*Cohen's d* = 0.12).

Ideological fit increases sense of belonging

Next, we examined whether the ideological misfit would lower participants' sense of belonging at the university. In a one-way ANOVA, ideological fit predicted sense of belonging, F(2, 94) = 8.92, $p = 2.7 \times 10^{-5}$, $\eta_p^2 = .15$. Tukey's HSD test revealed that participants in the ideological misfit condition reported a reduced sense of belonging (M = 4.16, SD = 1.35) relative to the ideological fit (M = 5.01, SD = 0.83) and control conditions (M = 5.09, SD = .72; all ps < .001). Sense of belonging did not differ between the ideological fit and control conditions, p = .76.

Sense of belonging mediates the effect of ideological fit on the desire to transfer

To test the prediction that sense of belonging mediates the relationship between ideological fit and the desire to migrate, like Study 2, we conducted mediation analyses.

First, we contrast-coded the ideological fit manipulation (ideological misfit = -1, control = 0, ideological fit = 1) and confirmed that fit predicted desire to migrate, unstandardized B = .58, SE = 0.16, t = 3.67, $p = 4.0 \times 10^{-5}$. Next, we confirmed that the ideological fit manipulation predicted sense of belonging, *unstandardized* B = -.43, SE = 0.12, t = -3.49, p = .001. Then, we confirmed that sense of belonging predicted the desire to transfer, unstandardized B = -.96, SE = 0.08, t = -11.58, p = 1.0×10^{-7} . Finally, a regression including both the ideological fit manipulation and sense of belonging showed that the ideological fit manipulation no longer predicted the desire to migrate (unstandardized B = .17, SE = .12, t = 1.54, p = .13, pr = .15), while the hypothesized mediator, sense of belonging, continued to predict the desire to transfer (unstandardized B = -.92, SE = .09, t = -10.50, p < 1.0×10^{-7} , pr = -.68). Sobel's significance test for mediation supported this hypothesis, Sobel's z = 3.43, $p = 2.9 \times 10^{-5}$.

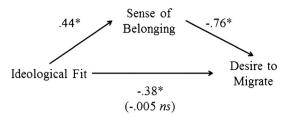


Fig. 4. Sense of belonging mediates the relationship between ideological fit and desire to migrate.

Next, we used self-reported perceived ideological fit as the independent variable, instead of the manipulated variable. In other words, we tested whether the link between perceived (self-reported) ideological fit and desire to transfer would be mediated by sense of belonging. As predicted, we found that perceived ideological fit predicted the desire to transfer, unstandardized B = -.031, SE = 0.008, t = -3.97, $p = 1.3 \times 10^{-5}$. Next, we confirmed that ideological fit predicted sense of belonging, unstandardized B = .028, SE = .006, t = 4.64, $p = 1.1 \times 10^{-5}$. Finally, a regression including perceived ideological fit and sense of belonging predicting the desire to transfer showed that the perceived ideological fit was no longer a significant predictor of the desire to transfer (unstandardized B = -.005, SE = .006, t = -0.85, p = .39, pr = -.06), while the hypothesized mediator, sense of belonging, continued to predict the desire to migrate (unstandardized $B=-.93,~SE=.09,~t=-10.00,~p<1.0\times10^{-6},$ pr = -.66). Sobel's significance test for mediation supported this hypothesis, Sobel's z = -4.33, $p = 1.4 \times 10^{-5}$. See Fig. 4.¹²

Discussion

Study 3 conceptually replicated Studies 1 and 2, and extended them by experimentally demonstrating that reduced ideological fit increases migration desires. Study 3 also replicated the mediational model from Study 2, providing further support for the argument that migration is motivated, in part, by the need to belong. Study 3 used ideology as a measured individual difference variable and only manipulated ideological fit rather than trying to manipulate both. Therefore, in Study 4, we experimentally manipulated both ideology and perceived community ideology as orthogonal factors, thus exerting full experimental control over these variables and the fit between them.

Study 4: Manipulating perceived personal and community ideology

In Study 4, we utilize a full experimental approach. As ideology is a relatively stable characteristic, it is difficult to manipulate among ideologues (see Alford, Funk, & Hibbing, 2005; see also Jost, 2006). Thus, we developed a similar design as Study 3 and then recruited people who may not yet have a clear ideological identity – people describing themselves as "neutral," or "moderate" – and gave them bogus feedback

to lead them to believe that they are more liberal or conservative than they previously thought. This approach will provide an even stronger test for the ideological migration hypothesis, and demonstrate that people garner a sense of belonging from being around people with similar ideological values.

Method

Participants

Participants consisted of 84 undergraduate students (50 female, 34 male) at the University of Virginia, ranging in age from 18 to 23 (M = 19.01, SD = 1.28), who self-identified as "moderate/neutral" on a demographic pre-test. Our sample size was designated to be 20 participants per cell; data collection was terminated the day on which we met this criterion. Participants received partial course credit in exchange for their participation in this study.

Materials and procedure

Participants entered the laboratory and were informed that they would be participating in two short studies. The first study was described as a study on a new measure of political attitudes that could help voters make sense of a complicated political world. In this first "study," participants were given one of two 7-item questionnaires that presented an argument advocating an extreme conservative or extreme liberal position (e.g., "Women should never have the right to have an abortion." vs. "Women should always have the right to have an abortion."). Participants indicated that they agreed or disagreed with each of the 7 statements. Due to the extreme nature of the items, they were nearly unanimously rejected. Upon completing the questionnaire, they scored themselves by counting the number of statements with which they agreed. On the self-scoring key, they read that disagreeing with the majority of the items means that they are: more liberal (if the questionnaire they received consisted of the extreme conservative positions) or more conservative (if the questionnaire they received consisted of the extreme liberal positions).

After completing this "first study", participants were given one of two of the news articles from Study 3, which stated that UVa was becoming more liberal or more conservative. After this article, they completed the same measures as in Study 3, with an additional question assessing the effectiveness of the ideology manipulation. This question asked participants to place themselves on a 6-point ideological scale ($1 = very \ liberal$ to $6 = very \ conservative$). Upon completion, participants were fully debriefed and thanked for their participation.

The correlations between the measured variables are documented in Table 3.

Results

Manipulation check

The manipulation of participant ideology had a significant effect on their self-reported ideology, F(1, 81) = 28.13, $p < 1.0 \times 10^{-7}$, $\eta_p^2 = .26$. Specifically, participants given the bogus feedback to think that they were more liberal, self-identified as more liberal (M = 2.42, SD = 0.72) than participants given the bogus feedback to think they were more conservative (M = 3.38, SD = 0.92).

Ideological misfit increases migration desire and decreases sense of belonging

As in Study 3, we created a single composite variable of "fit" for participants given feedback to think they were more liberal and who read that UVa was becoming more liberal or participants given feedback to think they were more conservative and who read that UVa was

 $^{^{\}rm 12}\,$ We tested the reverse mediation model, which was counter to our hypothesis, to further clarify the relations between the variables. Following the same approach, we conducted a regression showing the significant direct effect of ideological fit on sense of belonging (*unstandardized* B = -.44, SE = .12, t = -3.49, p = .001, $pr^2 = .11$), another regression showing that the desire to migrate is a significant predictor of sense of belonging (unstandardized B = -.59, SE = 0.05, t = -11.58, $p < 1.0 \times 10^{-6}$, $pr^2 = .56$). A final regression including ideological fit and desire to migrate showed that ideological fit no longer predicted sense of belonging (unstandardized B = -.10, SE = .09, t = -1.12, p = .26, $pr^2 = .01$) but desire to migrate did (unstandardized B = -.57, SE = .06, t = -10.50, $p < 1.0 \times 10^{-6}$, $pr^2 = .51$). Sobel's test for mediation was significant, Sobel's z = -3.46, p = 1.0×10^{-4} . Given the strong correlation between sense of belonging and desire to migrate, this is not surprising. It is important to note, though, that the hypothesized model demonstrates a greater reduction in the relationship between ideological fit and the outcome variable. Further, the reverse mediation model fits the data less well than the hypothesized model by 21%, Sobel's z for the hypothesized model = -4.34compared to *Sobel's z* for the reverse model = -3.46.

becoming more conservative, and "misfit" for participants given feedback that was different from the changing ideology at UVa. Misfit participants expressed a signifi homogeneous enclaves may be positive for the individuals and community itself.

Or, is ideological migration bad?

At the same time, segregating people into ideological or moral communities could also have negative consequences. Ideological segregation necessarily leads to reduced contact between members of the segregated groups. There is a long history of research demonstrating that reduced intergroup contact lays the foundation for future conflict and prejudice (Allport, 1954; Shaw & Zárate, 2007). When people do not have contact with members of an outgroup, they are more likely to view members of that outgroup as less than human (see Bandura, 1999; Goldenberg, Heflick, Vaes, Motyl, & Greenberg, 2009; McKeown, Cairns, Stringer, & Rae, 2012). Viewing outgroups as subhuman is a critical mechanism that permits people to perpetrate violent acts, such as supporting extreme military actions attacking the homelands of those outgroups (McAlister, Bandura, & Owen, 2006; Motyl & Pyszczynski, 2010; Pyszczynski, Motyl, & Abdollahi, 2009).

Luckily, the culture war in the United States is mostly a rhetorical war and not a literal one. However, like the children in Sherif's (1966) Robber's Cave study, liberals and conservatives living in separate camps often describe each other in derogatory, dehumanizing terms, and question each other's moral integrity (Robinson, Keltner, Ward, & Ross, 1995). This lack of communication and shared experiences that result from living in the same community may prevent liberals and conservatives from understanding each other (Ditto & Koleva, 2011), and decrease the extent to which they share superordinate goals (Pyszczynski et al., 2012), increasing the likelihood of incivility (Jost, Ledgerwood, & Hardin, 2008; Motyl et al., 2011). The gradual increase in moral segregation due to migration may be forming "complicit surrounds" that polarize group attitudes and create an ethos tolerant of hostile, uncivil behavior against outgroup members (Motyl & Pyszczynski, 2010; Pyszczynski et al., 2009; Reicher, Haslam, & Rath, 2008; Richardson, 2006). Thus, the recent trend of growing demonization and hostility (Crawford, Modri, & Motyl, in press; Haidt, 2012; Sapiro, 1999) may be due to the simple fact that migration and segregation reduces communication and interdependence among liberals and conservatives (Mutz, 2006). In short, ideological migration is a national unraveling of intergroup contact. Ideological migration might increase "bonding" with similar others, but decrease "bridging" with dissimilar others (Putnam, 2007).

Limitations

Our samples were not representative and tended to be disproportionately liberal. In Study 1, liberals were slightly more likely to show this ideological migration effect than were conservatives (the effect sizes differed by a mere 1%). In Study 2, however, liberals were slightly more likely to show this ideological migration effect than were conservatives (again the effect sizes differ by about 1%). Given the large samples, virtually all inferential statistics were statistically significant. The explanation and practical significance of these slight differences that vary across samples and studies are not clear from the present research. Furthermore, in Study 3, liberals and conservatives did not differ in their desires to migrate across ideological fit conditions. Thus, it is unclear whether the ideological migration effect differs for people across the ideological spectrum.

Studies 1 and 2 were conducted on very large and diverse samples collected on the internet, but they were not representative of any definable population (Gosling, Sandy, John, & Potter, 2010; Gosling, Vazire, Srivastava, & John, 2004; Nosek, Smyth, et al., 2007). Yet, we do not claim that the estimates provide parameter estimates of migration patterns for liberals and conservatives. They do, however, show that the effects are widespread and occur for a diverse sample across politics, regions of the U.S., and demographic characteristics.

Further, the effect sizes found were not large, and in other research (Iver, 2012; see also Motyl, Iver, Trawalter, & Haidt, in preparation), the desire to live near people of the same ideological group has been found to be relevant, though perhaps less important than having good job opportunities, safety, and clean air, when considering a place to live. Yet, the present research provides strong correlational and experimental evidence that it does matter, as well as a psychological explanation for why it occurs. These samples may be of higher socio-economic status and therefore more likely to move to satisfy psychological, as opposed to physical needs, than more representative samples. Previous research has indicated that as people become wealthier (Inglehart, 2008), they value the satisfaction of psychological needs more highly, and in Study 2, the predicted interaction was not found among less wealthy participants. It is possible that ideological migration is a trend that occurs once physical needs are met, a theory which would be consistent with the recent rise of ideological clustering and a segregated political geography (

implies the core values that span most of a person's moral worldview and that there are important differences between people who adhere to one worldview or another (Graham et al., 2013; Jost et al., 2003; Jost, 2009). Much in the same way that race is discussed, there are cultural and lifestyle differences between liberals and conservatives. Hunter (1991) argues that conservatives prefer an "orthodox" lifestyle that is rooted in respect for authority and a tendency toward tradition. He argues that liberals, on the other hand, prefer a "progressive" lifestyle that tends more toward challenging authority in pursuit of promoting human flourishing for all citizens equally. Hetherington and Weiler (2009) examined this hypothesis by looking at how traditional, non-political behaviors in one's life space predict their political behaviors in the broader social context. They found a very strong correlation between parents' belief in spanking their children as a necessary form of discipline and their support for President George W. Bush in the 2004 presidential election (Pearson's rs ranged from .79 to .83 across two analyses). Numerous other scholars demonstrate

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