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Introduction

Questions about how cultural omnivorousness is defined, measured and operationalised still remain the focus of much debate in cultural sociology (Warde and Gayo-Cal, 2009; Berghman and Van Eijck, 2009; Warde et al, 2008). While scholars have explored different dimensions of omnivorousness through volume and composition (Warde et al, 2008), others have examined the concept of omnivorousness with a theoretical emphasis on how people consume rather than just focussing on what they consume (Sullivan and Katz-Gerro, 2007; Stichele and Laermans, 2006). Increasingly researchers have also found that there are different types of omnivores in particular cultural fields (Van Eijck and Lievens, 2008; Sintas and Alvarez, 2002). There is also growing recognition that among high status groups, there are both 'highbrow' (liking for only legitimate genres) and 'omnivorous' patterns (Van Eijck, 2001; Peterson, 2005). Yet, relatively few studies have examined omnivorousness by measuring not just what individuals consume but also the differences in the way they consume cultural activities (Sullivan and Katz-Gerro, 2007). The omnivorousness literature now spans much of Europe, Australia and North America, and even some countries in South America (Alderson et al, 2007; Torche, 2007; Van Rees et al, 1999; Van Eijck, 2000; 2001). Despite the paucity of data, there have also been some attempts to specifically measure omnivorousness across countries (Lizardo and Skiles, 2009; Katz-Gerro, 2002) but very few studies have examined the importance of place on cultural consumption within a country (Widdop and Cutts, 2012).

In this article we make a number of contributions to the cultural omnivorousness literature. In the first part, using a latent class modelling approach, we examine whether there are different modes of omnivorousness in England based on the frequency of participation. Building on previous research, we aim to differentiate between voracious omnivores and a more general or infrequent omnivore group as well as distinguish between other cultural consumers

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2
3 (Sullivan and Katz-Gero, 2007; Stichele and Laermans, 2006). Here we use a wide variety of
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5 activities that cross cut the perceived symbolic boundaries of culture in England (Peterson,
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7 2005). Our aim is to determine the socio-economic make-up of the different omnivore
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9 groups, specifically the voracious omnivores, in order to examine whether members of this
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11 lifestyle group have a distinctive socio-economic profile.
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15 The second part of the paper builds on these findings and makes an important substantive and
16
17 methodological contribution to the omnivorousness debate. Here we examine whether
18
19 cultural consumption patterns are clustered at the area level within England based on the
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21 frequency and participation in cultural activities of individuals. Part of the theoretical
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23 justification for this novel approach is to re-establish the importance of place as a key driver
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25 in the formation and maintenance of cultural lifestyles. Place remains a constituent element of
26
27 social and cultural life, and historical change (Gieryn, 2000; Friedland and Boden, 1994), yet
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29 place, the macro contextual mechanisms and the different spatial scales in which participation
30
31 occurs remains relatively ignored in studies of cultural omnivorousness. Here we seek to
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33 readdress this anomaly by establishing whether clustering exists at the regional level in
34
35 England. However, our focus is on the voracious omnivore group and the expectation that
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37 individual members of this lifestyle group, given their socioeconomic profile, will choose to
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39 live in close proximity to individuals with similar values and cultural participation habits to
40
41 their own. We hypothesise that this lifestyle group would not only cluster in space but share
42
43 daily interaction with similar people in local networks. We stress that the context in which
44
45 such interactions occur is likely to be an important determinant on which preferences are
46
47 formed and the frequency in which they are consumed. Given this, we aim to determine
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49 whether there are area level clusters of cultural consumption based on the latent class cultural
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51 typologies at the individual level, and hypothesise that voracious omnivores will cluster in
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53 distinct places when compared to other cultural consumers, including other omnivores. This
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3 is methodologically innovative because conventional latent class models, which are widely
4 used in the omnivorousness literature to capture cultural lifestyle types, make the assumption
5 that observations are independent. If clustering exists then this assumption is violated. Here
6 we employ a non-parametric multilevel latent class model to simultaneously capture latent
7 class typologies at the individual level and types of areas. While this has been applied in
8 other fields, at present, it has not been used in the cultural omnivorousness literature to
9 measure between group heterogeneity.
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18 19 **The Omnivore Thesis**

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22 Up until the early 1990s, the path-breaking work of Pierre Bourdieu's 'Distinction'
23 represented the most comprehensive theoretical understanding and explanation of the
24 apparent interrelationship between cultural and social hierarchies (Bourdieu, 1984). The
25 existence of a homology in cultural stratification, that people belonging to the dominant
26 classes affirmed their higher social status through the consumption of highbrow culture while
27 those with lower social status preferred and consumed lowbrow culture, became the
28 orthodoxy for twenty years or more. However, by the last decade of the twentieth century,
29 scholars began to question whether Bourdieu's theory still reflected contemporary social
30 reality (Van Eijck, 1999; Stichele and Laermans, 2006). In a number of important articles,
31 Peterson and his colleagues (Peterson, 1992; Peterson and Kern, 1996) reformulated the
32 relationship between status hierarchy and cultural taste. Put simply, high status groups had a
33 broader cultural repertoire, appreciating more middlebrow and lowbrow activities than the
34 orthodoxy suggested. These were labelled 'omnivores'. Whereas the lower status groups
35 were restricted in their consumption patterns to only the mainstream or popular culture, and
36 were, therefore, coined 'univores' (Peterson, 2005; Peterson and Kern, 1996). Following this
37 ground-breaking work, numerous scholars have sought to classify cultural preferences in a
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3 broadly similar way, with many supportive, although not exclusively so (Bryson, 1996; Van
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5 Eijck, 1999; 2001; Sintas and Alvarez, 2002; Van Rees et al, 1999).
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9 Most scholars though have observed the existence of an omnivore group and claim that
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11 greater socio-cultural heterogeneity reflects the rise in social mobility over recent decades
12
13 with the growth of the mass media and online technology, the development of the leisure
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15 industry and easier access to higher education as important drivers (Peterson, 2005; Stichele
16
17 and Laermans, 2006). Omnivores also benefit from a broader and more diverse social
18
19 network where they can display knowledge gained from interaction with individuals in
20
21 different social circles which reinforces social approval within these circles (Van Eijck,
22
23 1999). Nonetheless, numerous empirical findings suggest that the omnivore group is
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25 relatively small in number and that its socio-economic make-up does not purely reflect the
26
27 relationship between economic class and patterns of consumption (Sullivan and Katz-Gerro,
28
29 2007). Generally, studies have found that higher education, higher income and higher
30
31 occupational status are strongly associated with omnivorous cultural preferences (Van Eijck,
32
33 2001; Sintas and Alvarez, 2002). However, effects for gender and age are contested. Whether
34
35 gender is strongly associated with omnivorism depends upon the domain of activity selected
36
37 for the analysis, as shown by the differentiated gender effects found in a number studies (Van
38
39 Eijck, 2001; Sintas and Alvarez, 2002, Warde and GayoCal, 2009). Similarly, some scholars
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41 suggest that younger age cohorts are more inclined to be omnivores (Stichele and Laermans,
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43 2006; Van Eijck, 2000), whilst others disagree (Warde et al, 2007; Warde and Gayo-Cal,
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45 2009; Van Eijck et al, 2002).
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51 Recent scholarly debate has focussed on the meaning and significance of cultural
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53 omnivorousness and how the concept is currently operationalised (Warde et al, 2007;
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55 Peterson, 2005). For instance, a number of studies have emphasised that appreciating a wide
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57 range of cultural genres or activities is not in itself limited to higher status groups (Van Eijck,
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3 1999). Omnivores may still discriminate against some particular forms of popular culture
4 (Bryson, 1996). Others have highlighted the existence of different types of omnivores in a
5 number of cultural fields (Van Eijck and Lievens, 2008; Sintas and Alvarez, 2002), while
6 there is increasing evidence of both 'highbrow' and 'omnivorous' patterns among high status
7 groups (Van Eijck, 2001; Peterson, 2005). This has led to refinements in the established
8 omnivore-univore dichotomy with new categorisations to reflect the small minority in the
9 higher social strata which reject popular culture as opposed to those with omnivorous
10 consumption habits, and equivalent sub-divisions to reflect similar consumption patterns
11 among 'lowbrow' groups (Peterson and Rossman, 2007). Alongside such refinements, some
12 scholars have explored different dimensions of omnivorousness through volume and
13 composition (Warde et al, 2008). Others have examined how omnivorousness is
14 differentiated between taste and participation (Warde and Gayo-Cal, 2009; Yaish and Katz-
15 Gerro, 2010) establishing what people like and what people do are different phenomena, with
16 different causes and effects.
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35 Cultural omnivourism is not without critics. As an explanation of contemporary cultural
36 engagement, it remains unclear whether such variations are due to a global trend regardless of
37 nationality, whether omnivorousness is indeed a peculiar feature of the American society, or
38 if it is confined to specific countries (Rimmer, 2012; Prior, 2013). When it first appeared, the
39 work of Peterson and his colleagues was interpreted as a challenge to the widely-accepted
40 approach of Bourdieu. However, questions persist about omnivourism as the sole explanation
41 of contemporary cultural engagement (Atkinson, 2011). Furthermore, Friedman (2012) notes
42 that rather than presuming the cultural eclecticism researchers should play closer attention to
43 both how and why omnivorous taste is established. Other scholars remain sceptical about the
44 true nature of the omnivore manifestation, specifically whether it represents a new form of
45 cultural capital or whether omnivorousness is an orientation which itself acts as a marker of
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3 distinction (Bennett et al, 2009). Some are critical of the concept stating that it may be a
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5 product of empiricist quantitative methods (Lahire, 2004), while evidence persists that
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7 particular forms of less legitimate culture simply don't cross boundaries (Bryson, 1996). For
8
9 Savage (2006) this may be indicative of the reworking of highbrow culture. In summary,
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11 although its true meaning remains unclear, nowadays it is broadly accepted that homology
12
13 and omnivorism are indeed compatible (Tampubolon, 2008; Lizardo and Skiles, 2012).
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16 17 **Reconsidering Omnivorism**

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20 The general aim of this paper is to revisit and further extend the boundaries of the
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22 omnivorism literature. Initially, we seek to achieve this by mapping cultural consumption
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24 in England using a measure based on both the frequency and range of cultural participation.
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26 Here we explore a range of cultural activities that cross the perceived cultural hierarchical
27
28 boundaries to determine an accurate account of cultural lifestyles (Alderson et al, 2007;
29
30 Peterson, 2005). By measuring both the range and frequency of participation, theoretically,
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32 we stress the importance of examining not just what individuals consume but also the
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34 differences in the way they consume cultural activities (Bourdieu, 1984; Sullivan and Katz-
35
36 Gerro, 2007).
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41 The theoretical basis for this analysis stems from scholarly work that emphasises the link
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43 between the insatiable consumer, whose wants are seemingly endless, and the dynamic of
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45 modern day consumption (Sullivan and Katz-Gerro, 2007; Campbell, 1987). The depiction of
46
47 a 'voracious' cultural consumer – someone who switches from one activity to another for
48
49 brief periods thus avoiding immersion in one specific activity – reflects wider social and
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51 cultural developments for individuals in late modernity and the need to take time into account
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53 when examining cultural participation (Rosa, 2003; Cotte et al, 2004). As the pace of life of
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55 individuals accelerates, particularly for those who are well educated and high income earners,
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3 time becomes scarcer and speed becomes more important, therefore, an intensification of
4 activities occurs (Sullivan and Gershuny, 2004; Gershuny, 2000). Moreover, as intensity
5 increases, more activities are done simultaneously, that inevitably spirals in to individuals
6 increasingly compressing their time, resulting in ever shorter spells spent on each activity
7 (Sullivan and Katz Gerro, 2007; Southerton, 2003). Therefore, the tension between limited
8 free time and a broad taste or lifestyle has resulted in such consumers being coined 'cultural
9 hoppers': those who 'take a little bit here, a little bit there, but never a lot of the same'
10 (Stichele and Laemans, 2006). Yet, a growing literature also suggests that it is those
11 individuals from high status groups that not only work more but consume more (Schor,
12 1992). Another study also showed that as educational levels increased, participation in
13 cultural activities increased, as did the frequency of participation (Stichele and Laemans,
14 2006). Through their innovative use of cross sectional time data from different sources, one
15 group of scholars found voraciousness in leisure participation shares similar relationships to
16 that of omnivorousness – associated with high status, education and cultural capital – and that
17 those individuals with 'insatiable' appetites for a broad range of cultural activities could not
18 be just attributed to having more time or money than others (Sullivan and Katz-Gerro, 2007).
19 Voraciousness is, therefore, a depiction of 'status distinction, a cultural boundary, and a sign
20 of social exclusion' (Sullivan and Katz-Gerro, 2007: 133). The classification of this
21 dimension of cultural behaviour has gone some way in reconciling the apparent contradiction
22 between increases in leisure time and the increase in time devoted to work.
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48 The scholarly works discussed here, therefore, provides the theoretical justification to take
49 account of both how and what is consumed.¹ Given such consumption habits, it is apparent
50 that we may not only be able to distinguish a voracious group from other cultural lifestyle
51 groups, but also other omnivore types (Stichele and Laermans, 2006). After identifying this
52 voracious omnivore group, the aim is to examine its socio-economic make up and to examine
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3 if it is distinct from other cultural lifestyle groups, and whether our findings concur with
4 those stated above. Yet, if voraciousness is a depiction of 'status distinction', one might
5 expect such a group to cluster by geographical location or place. Given the tension between
6 limited free time and an insatiable appetite for a broad range of cultural activities, place is
7 likely to be an important driving force of the voracious lifestyle cluster. This is not only a
8 supply side issue, in terms of access to a range of cultural items, but reflects the fact that
9 many participation acts are socially learned and stimulated (Huckfeldt, 1979; Agnew, 1987).
10 Place mediates social life: it is a vital medium through which social life happens (Gieryn,
11 2000). While it is clear that high status individuals are more likely to both be voracious and
12 participate in a wider range of cultural activities than those from the lower echelons of
13 society, we hypothesise that living in a local context surrounded by higher status individuals
14 is also likely to encourage voracious omnivorousness.

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30 To date, much of the scholarly analyses of omnivorousness are based on a compositional
31 approach, whereby cultural consumption patterns are assumed to be largely influenced by an
32 individual's position within society or their personal evaluation of the contemporary cultural
33 field. From this compositional stance, any variation in cultural participation by place is likely
34 to be a reflection of the variation in the numbers of disadvantaged or affluent individuals in
35 that area. Individuals with similar lifestyles or socio-economic characteristics are, therefore,
36 likely to adopt comparable consumption habits wherever they live (Macintyre, 2007).
37 However, such explanations of cultural behaviour ignore the importance of contextual
38 effects, how they mediate social life, not only through social interaction and other macro-
39 level forces, but also how participation in the cultural field is enhanced through a sense of
40 belonging or place (Agnew, 1987). If beliefs, attitudes and expectations are socially
41 constructed, then any form of participation will be influenced by place, not only through the
42 interaction with others they reside with or share the same social world (Buck, 2001), but also

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3 through geographical location, as this social interaction must take place somewhere (Agnew,
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5 1987).
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8 In this article we stress that the social context is a crucial connecting tie between individual
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10 stratification and partaking in cultural activities. The decision to participate might be
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12 heightened by interpersonal interaction with family, friends, neighbours, work colleagues or
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14 others in local social networks (Huckfeldt, 1979), or even from information flows from the
15
16 local media as well as different cultural bodies that operate in the vicinity. For those
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18 individuals who live close to a cultural venue, participation may be enhanced given that they
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20 will be more exposed to its physical presence and what it offers (Curtis and Rees-Jones,
21
22 1998).
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26 We regard context, therefore, as complementary to compositional effects. Theoretically, high
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28 status individuals may be more likely to participate, frequently, in a broad range of cultural
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30 activities. But participation may reflect the local social environment, with individuals
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32 stimulated to consume cultural activities both where they are around people who engage in
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34 these cultural genres and through the adoption of prevalent group norms which enhances
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36 participation. Hence, we may expect consumption of cultural activities to vary in some areas
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38 than others. Given that these high status individuals will choose to locate in close proximity
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40 to individuals with similar values, lifestyles and cultural participation habits to their own, it is
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42 probable that such groups would not only cluster in space but share daily interaction with
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44 likeminded people in active networks. The context in which such interactions occur is likely
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46 to be a significant influence on how individuals' preferences are formed, the frequency of
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48 participation and the consumption of cultural activities.
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54 These expectations can be linked to recent research on the importance of culture in cities, the
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56 cultural economy and the creative class where scholars have rallied against those who seek to
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3 devalue place by stressing that place and community are more critical factors than ever before
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5 (Florida, 2005). For instance, Florida (2005) stresses that creativity lies at the heart of cities
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7 and accounts for why consumption may vary by place. He argues that 'regional economic
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9 growth is driven by the location choices of creative people – the holders of creative capital –
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11 who prefer places that are diverse, tolerant, and open to new ideas' (Florida, 2002: 223). If
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13 those with the highest levels of cultural capital are socially and geographically mobile, it is
14
15 inevitable that they would chose to reside in the very places Florida identifies, constructing
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17 alternative cultural lifestyles in different places. Because creative people want to live there,
18
19 supply side creative and cultural institutions and companies then follow the people – or, in
20
21 many cases, are started by them. Creative centres provide the integrated habitat where all
22
23 forms of creativity – artistic and cultural, technological and economic – can take root and
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25 flourish which in turns encourages similar people to locate in these places (Miles, 2010).
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27 Florida's human capital' theory of regional development suggests that creative people require
28
29 'quasi- anonymity' preferring the flexibility of weak community ties as opposed to the
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31 constraints imposed by strong community ties (Miles, 2010). Recent research also suggests
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33 that those with cultural omnivorous tendencies have weaker less dense networks and are
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35 comprised of friends and acquaintances as opposed to the less culturally active who had
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37 stronger family ties (Widdop et al, 2014)
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44 But is it possible to differentiate between voracious omnivores and other cultural lifestyle
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46 groups, including other omnivores, using measures of frequency and participation? Do
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48 voracious omnivores exhibit the same socio-economic make-up as portrayed in previous
49
50 scholarly work? And if voraciousness is a depiction of 'status distinction', do voracious
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52 omnivores, as our theoretical discussion of the role of place suggests, cluster in areas which
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54 are distinct from other area clusters of cultural lifestyle groups? To address these questions,
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56 we examine cultural participation in England using innovative statistical techniques.
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Data and Methods

Our analysis of cultural participation in England uses data drawn from the 2005-2006 Taking Part Survey (TPS). Whilst this wave of the TPS is not the most up to date version, we believe that it provides the most complete data at both the individual and area level when compared to more recent surveys; therefore we believe it is an appropriate survey to test the papers hypothesis. The TPS surveyed 28,117 adults via face to face interviews, about their participation in a range of cultural activities. Households were drawn from the postcode address file and interviews were conducted with a randomly selected member of each household aged 16 or over. The survey asked if respondents had taken part in a number of cultural activities in the last 12 months (1=Yes, 0= No). We use these questions to measure what cultural activity people take part in rather than their self-reported tastes for particular cultural genres. The decision to examine actual cultural practises than self-reported tastes is largely a reflection of available data in the TPS which does not contain information on individuals' reported tastes. However, a number of cultural scholars have stressed the need to examine actual claims about an individual's cultural consumption – as a form of social action – rather than tastes, and as such measure actual participation in cultural activities (Van Rees et al, 1999; Chan, 2010; Sullivan and Katz-Gerro, 2007; Sintas and Alvarez, 2002; Stichele and Laermans, 2006).

Operationalising Omnivourism

A key concern of this paper is to measure omnivorousness using a wide range of cultural consumption practices that largely map onto conventional distinctions between 'mass'/'popular' culture and 'elite'/'high' culture (Alderson et al, 2007). To this end, we include a range of cultural activities from different fields: (1) attended a classical music or opera performance; (2) attended a live ballet performance; (3) attended a live play/drama; (4)

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3 visited a museum or art gallery; (5) attended a theatre to watch a movie; (6) attended a live
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5 rock/pop event. For each of the cultural items selected, the respondent was asked whether and
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7 how many times they had engaged in the cultural activity over the past 12 months. Therefore,
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9 rather than the standard dichotomous participation variable approach (did participate versus
10
11 did not participate), we use a trichotomous ordinal variable for each of these indicators. Three
12
13 response categories were used to measure how often the respondent consumed each cultural
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15 item: 1) never; 2) 1-2 times a year; and 3) 3 or more times a year. The frequency distributions
16
17 in Table 1 illustrate that the cultural items chosen in the analysis cross the perceived symbolic
18
19 boundaries of cultural activities (Warde et al, 2007). For instance, going to the cinema and
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21 visiting a museum were the most popular activities, with more than 35% of respondents
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23 going to the cinema more than three times a year. Attending a live drama or a pop/rock music
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25 concert was less popular, although more than 20% of respondents went to the former and
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27 more than 15% attended the latter. More highbrow items such as attending a classical or
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29 opera performance, or a ballet performance were the least popular of all the cultural items
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31 chosen.
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38 In this article we operationalise omnivorousness through actual participation, rather than taste
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40 or knowledge (Bennett et al 2009). Put simply, we are measuring a single specific aspect of
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42 consumption and our results only lend themselves to participation in leisure outside of the
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44 home. This has a number of limitations. Firstly, this form of cultural engagement may be
45
46 supply side specific. The more cultural items on offer the greater the opportunity for
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48 engagement; this is especially true when examining place based participation. Secondly, by
49
50 not accounting for home-based consumption data, membership of typology groups and place
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52 effects might be conflated. Indeed, perhaps individuals with similar characteristics may share
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54 the same participation habits but choose to do it at home rather than in the physical form, and
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3 this may be place specific. Unfortunately, there was no comparable home-based consumption
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5 data available in the survey to determine whether this was the case here.
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11 *Insert Table I*
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17 One of the major benefits of the 2005-06 TPS is that it contains a significant amount of socio-
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19 demographic information on a large number of respondents. All respondents were coded to
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21 the National Statistics Socio-Economic Classification (NSSEC) which is used as the standard
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23 measure of occupational class. Educational attainment is coded to the six official National
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25 Vocational Qualifications levels (England), ranging from degree level to no qualifications.
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27 We also use a wide range of other important individual socio-economic data including sex
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29 (female dummy variable), age (categorical variable from young 16-25 to old age 65 plus) and
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31 ethnicity (categorical variable including white and four non-white categories: Black, Asian,
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33 Mixed, Chinese and other).
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38 The TPS has a hierarchical sample design; individuals are nested in different geographical
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40 locations. Given that we seek to simultaneously capture latent class typologies at the
41
42 individual level and types of areas, we need to determine an appropriate spatial scale in which
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44 to base our empirical investigation. Using a nonparametric multilevel latent class approach
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46 does limit us computationally, to some extent, given the complexity of the analysis. As a first
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48 cut, given the methodological innovation employed to examine whether voracious omnivores
49
50 cluster in areas which are distinct from other cultural lifestyle groups, it is important to use a
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52 spatial context which is both well established in the geographical literature and commonly
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54 used. For a combination of these reasons, we use regions as our collective unit of analysis.
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3 Regions are groupings of individual units which are internally relatively homogenous,
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5 although the standard regions used by the British government and official bodies are a very
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7 coarse division of England. Hence, we use a larger number of internally more homogenous
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9 regions by separating out the major urban conurbations from their surrounding 'rural' areas.
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11 The sixteen regions used in the analysis are shown in Figure 1. Using the regional scale is a
12
13 strict test, given that some, although not all, of the contextual processes we identified –
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15 interpersonal interaction with family, friends, neighbours, work colleagues or others in local
16
17 social networks – that may precipitate the clustering of voracious omnivorous behaviour
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19 would be more likely to occur at lower spatial scales than the region. If we can identify a
20
21 distinct voracious omnivore cluster at this area level from other cluster lifestyle groups, then
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23 it is likely that place will be a significant influence on such behaviour at varying geographical
24
25 spatial scales in England.
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31 *Insert Figure 1*
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37 **Multi-Level Latent Class Model**

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39 As most statistical models, latent class (LC) analysis assumes that the dataset of interest
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41 contains a sample consisting of independent observations. This is an assumption that is often
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43 violated. So while standard LC models assume that the model parameters are the same for all
44
45 individuals (level 1 units), the multilevel LC model allows some of the model parameters to
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47 differ across groups or clusters (level 2 or higher level units) where respondents share
48
49 common experiences and interactions. Not only is it vital to use multilevel techniques to
50
51 overcome any dependencies between observations, but it is often possible to examine the
52
53 extent to which the phenomenon of interest (in our case whether we can identify a voracious
54
55 omnivore cluster at the area level) can be found or even explained by macro-level forces
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2
3 (Vermunt, 2008). Our approach uses a discrete unspecified mixing distribution (a
4 multinomial distribution assumption) which ensures that both the latent classes of level 1
5 units and the latent classes of the level 2 units share the same parameter values (Vermunt,
6 2003; 2008). This non-parametric Multi-level Latent Class modelling approach is preferred
7 here because it is more natural to classify groups into a smaller number of different types
8 (e.g. countries or regions) than to make the assumption that they exist on a continuous scale
9 (Vermunt, 2003). In this paper, we can examine the extent to which regions are homogenous
10 in their cultural latent structure. In the LC component of the model we develop typologies of
11 lifestyles of respondents based on their consumption habits; here the sixteen regions will
12 belong to the same regional segments if they are highly similar in the within-regional
13 structure of cultural segmentation (Vermunt 2003; 2008).²
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31 **Fitting the Model**

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34 At the individual level, the latent class analysis enables us to estimate the probabilities that an
35 individual belongs to a certain class/typology given their participation frequency patterns in
36 the six cultural variables. The initial aim is to determine the appropriate number of lifestyle
37 types (classes) that exist in the population. In other words, the most parsimonious model that
38 provides the best fit to the observed data.³ In the modelling approach here a five class
39 solution is the most appropriate model; each goodness-to-fit measure reaches its optimal
40 point at a 'five class' solution. The fit statistics provide clear evidence that there are
41 underlying types of consumers who share similar frequency participation patterns (Table 2).⁴
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*Insert Table II***Profile of Latent Classes (Individual Level)**

The estimated size of the latent classes and the estimated conditional probability of consuming each of the cultural items given membership in a latent lifestyle class are reported in Table 3. Labels are assigned to each latent class based on their likely participation in each cultural item and the frequency of that participation. Of the five latent classes identified, two of these clusters can be characterised as omnivorous. Derived from the conditional probabilities, these two groups are engaged in the full range of cultural activities and have omnivorous tendencies by volume and through preferences that cross-cut the perceived hierarchy between legitimate and popular culture. It is possible to differentiate between these two omnivorous classes by the frequency measure of participation across the range of cultural activities used. Class 1 ('voracious omnivores') is populated by 6% of respondents and is highly distinguishable from the other omnivore group and the other lifestyle groups for its extremely active consumption and sheer insatiable appetite for all the cultural items. These 'voracious omnivores' not only have a high probability of consuming all of the cultural items of all the lifestyle groups, they are the most frequent consumers in a manner depicted in previous scholarly work (Sullivan and Katz-Gerro, 2007; Stichele and Laemans, 2006). The one exception is the attendance of live rock and pop concerts where members of the 'general omnivore' group have a higher probability of attending more than three times per year. A closer inspection of the LC results also suggests that members of the 'voracious omnivores' cluster are particularly frequent consumers of highbrow activities with just under three quarters of respondents in this group attending a classical music concert or opera performance over the past 12 months. And just to illustrate their breadth of consumption,

1
2
3 more than 85% of respondents attended three of the most popular items: going to the cinema,
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5 attending a live play and visiting a museum.
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8 In contrast to the ‘voracious omnivores’, the ‘general omnivore’ (cluster 2) group is
9
10 populated by nearly three times as many respondents (17% in total). While this cluster
11
12 exhibits omnivorous traits they do so without the voracious behaviour of their omnivorous
13
14 counterparts. However, they have a high probability of consuming each of the cultural
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16 indicators here (in relation to the mean attendance), but are more likely to be frequent
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18 consumers of the non-highbrow cultural activities. And their frequent consumption of cinema
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20 and attending live rock and pop concerts suggests that this group may be much younger in
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22 age than their more voracious counterparts.
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30 *Insert Table III*
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36 The remaining three LC clusters at the individual level resemble those found in other
37
38 scholarly work. Cluster 3 (‘Highbrow’) is populated by 16% of the survey population and are
39
40 a high cultured group in the Bourdieusian tradition, engaging in legitimate culture but
41
42 distancing themselves (aesthetically) from more popularised activities (Bourdieu, 1984;
43
44 Peterson, 2005). They are not frequent consumers, even of highbrow activities, particularly
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46 when compared against the ‘voracious omnivores’. A similar group has been identified in a
47
48 wide range of cultural activities and have been labelled everything from ‘highbrow snobs’
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50 (Peterson and Kern, 1996) to ‘traditional participants’ (Stichele and Laermans, 2006). Cluster
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52 4 (‘Univore’) is the popular active class and is made up of 28% of respondents. They exhibit
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54 ‘univorous’ traits given their frequent consumption of one cultural item above all others –
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3 going to the cinema – and their avoidance of more legitimate highbrow activities (Peterson,
4 2005; Peterson and Kern, 1996). The final cluster is populated by a third of respondents and
5
6 can be labelled as ‘non-participants’. This group is highly distinguishable from their
7
8 counterparts through their inactivity, both in the range and frequency of consumption (Van
9
10 Rees et al 1999; Sintas and Alvarez, 2002).
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18 **Socio-Economic Profile of Latent Clusters (Individual Level)**

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21 Given that we have identified the existence of a ‘voracious omnivore’ cluster at the individual
22
23 level, we now examine whether they exhibit the same socio-economic make-up as portrayed
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25 in previous scholarly work. To determine whether this was the case, Table 5 provides the
26
27 conditional probabilities of membership for each of the five latent classes by occupational
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29 class, education, age, sex, and ethnicity.
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33 When compared against the other latent groups, ‘voracious omnivores’ are high status
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35 individuals: largely from the higher occupational classes and well educated with more than
36
37 three quarters having a degree or a postgraduate qualification. There is some evidence that
38
39 both the ‘general omnivore’ and ‘highbrow’ groups share similar traits to the ‘voracious
40
41 omnivores’, albeit not on the same scale, hence some members of the former were also more
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43 likely to be students and have level 3 educational qualifications. Likewise, a significant
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45 proportion of those in the ‘highbrow’ group do not possess any educational qualifications.
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47 The ‘voracious’ omnivores’ are mainly white and female when compared against the other
48
49 latent clusters. Those from non-white ethnic backgrounds have a higher probability of being
50
51 ‘univores’ than members of any other latent cluster. Another important distinction is age.
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53 Unlike the less voracious omnivore group, which tends to contain individuals from a younger
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55 age cohort, ‘voracious omnivores’ are predominantly from the middle older age group from
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3 45-64. They are extremely unlikely to be from the youngest age cohort (18-24), which mainly
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5 exhibits ‘univorous’ traits. Those aged 65 plus are either significantly more likely to be
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7 ‘highbrow’ consumers or non-active participants.
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11 Scholars have consistently found that high status individuals, particularly those who are well
12
13 educated, have omnivorous cultural preferences (Van Eijck, 2001; Sintas and Alvarez, 2002).
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15 Those who have taken account of voraciousness have found similar relationships for age,
16
17 class and education (Sullivan and Katz-Gerro, 2007). Previous evidence suggests that
18
19 frequent participants with omnivorous traits are commonly found among the younger age
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21 cohort reflecting the growth of mass entertainment, heightened forms of youth (sub) culture
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23 and general societal context which has affected cultural practice over the past 30 years or so
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25 (Stichele and Laermans, 2006). We found evidence to the contrary. While the less voracious
26
27 omnivore group largely contained individuals from the younger cohorts, more than half of the
28
29 ‘voracious omnivores’ in England were from the middle older 45-64 age group. Nonetheless,
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31 ‘voracious omnivores’ exhibit a distinct socio-economic make up when compared to the other
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33 cultural latent groups and as such one might expect these high status individuals to locate in
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35 close proximity to others with similar cultural participation habits to their own. We would,
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37 therefore, expect them to cluster in areas which are distinct from other area clusters of
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39 cultural lifestyle groups.
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48 *Insert Table IV*

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51 **Does Place Matter?**

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53 Using the non-parametric Multi-level Latent Class modelling approach, it is not only possible
54
55 to identify latent class typologies at the individual level but to classify the sixteen regions of
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3 England into a number of area types where individual cultural classes differ between areas
4 (Figure 1). The model findings shown here take account of the socio-economic make up the
5 latent classes at the individual level. The results are presented in Table 5. Based on the
6 goodness of fit statistics (BIC), we find three area level types that exist at the regional scale.
7 Two of the segments are relatively large, with both Area A ('Moderately Active') and Area B
8 ('Inactive') consisting of eight regions. By examining the relative sizes of each of the five
9 individual latent classes across these areas, it is clear that Area A cluster exhibits moderate or
10 average consumption patterns. Most classes are close to the mean, with higher than average
11 'general omnivores' in Area A than other clusters. Likewise, there are less non-active
12 participants here than in the other two area clusters. Area B ('Inactive') is distinguished by
13 the high level of non-consumers and low level of 'voracious omnivores', while the other
14 classes are close to the mean as in Area A ('Moderately Active'). These two areas clusters are
15 populated by 92% of respondents. A map of the regional clusters identified is shown in
16 Figure 2 and suggests a salient north-south divide. The 'inactive' area (Area B) consists of
17 regions which are all but confined to the North/Midlands of England.⁵ Whereas the 'moderate
18 consumption area', which does have higher than average levels of 'general omnivores' and
19 noteworthy levels of 'voracious omnivores' has clusters of English regions concentrated in
20 the more affluent South East, South West and Outer London.⁶ But do 'voracious omnivores'
21 cluster in areas distinct from other cultural groups?
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49 *Insert Table V*

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52 Area C ('Frequent Omnivores') is a small segment and consists of only one region. Closer
53 inspection reveals that it contains 8% of respondents and is distinguished from the other area
54 clusters by the much higher than average probability of containing 'voracious omnivores'.
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3 Unlike the other active classes – ‘highbrow’ group shows no difference across the three area
4 clusters; the ‘general omnivore’ group shows a slight difference; and the ‘univore’ class
5 shows no difference between Area A (‘Moderately Active’) and B (‘Inactive’) – ‘voracious
6 omnivores’, even after controlling for individual socio-economic characteristics, are
7 predominately confined to one region in England. As Figure 2 shows, this region is Inner
8 London. Part of the explanation undoubtedly lies in the supply of cultural goods available in
9 Inner London, the depth and breadth of which is not matched elsewhere in England. It is also
10 relatively small in geographical size compared to the other regions of England, so as the pace
11 of life for high status individuals (‘voracious omnivores’) increases and intensification of
12 activities accelerates, time and speed can be maximised given that a wide variety of cultural
13 goods are easily accessible within short distances (Sullivan and Gershuny, 2004). The
14 existence of this ‘voracious omnivore’ area cluster at the regional scale also suggests that
15 high status individuals choose to reside in close proximity to individuals with similar values,
16 lifestyles and cultural habits to their own. It is likely, although not explicitly tested here, that
17 ‘voracious omnivores’ cluster in this area because they interact with likeminded people in
18 active social networks. Place is therefore integral to our understanding of cultural
19 consumption habits. It not only mediates social life for ‘voracious omnivores’, it is the critical
20 tie between individual stratification and the consumption of cultural activities.
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47 *Insert Figure II*

48 49 **Conclusion**

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52 Our aim was to revisit and further extend the boundaries of the omnivorousness literature.
53 We sought to map cultural consumption in England using a measure based on both the
54 frequency and range of cultural participation. Based on the link between the insatiable
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3 consumer and the dynamic of present day consumption, our primary focus was on the
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5 'voracious omnivore' cultural consumer. Was it possible to distinguish between this group
6
7 and other cultural lifestyle groups in England, using measures of frequency and participation?
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9 Our findings clearly suggest the existence of such a group, which is distinct not only from
10
11 lifestyle typologies, but also from a 'general omnivore' group which also exhibited an
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13 insatiable appetite for cultural items but not with the depth, breadth and frequency of those
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15 classed as 'voracious omnivores'. The socio-economic make-up of this 'voracious omnivore'
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17 group shared many of the characteristics noted in other scholarly work: largely high status
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19 individuals, particularly in relation to occupational class and educational qualifications but
20
21 there was little evidence that were from the younger age cohorts. As such, they could be
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23 depicted as high status individuals who exhibited an intensely active cultural lifestyle and
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25 enjoyed a diverse range of cultural experiences. Given these traits, and based on our
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27 theoretical arguments about the role of place, we hypothesised that this 'voracious omnivore'
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29 group were likely to cluster in areas which were distinct from other lifestyle groups.
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35 We fused the theoretical case for taking account of the importance of place in the cultural
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37 literature with methodological innovation in order to empirically test our key hypothesis. Our
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39 expectation of between group heterogeneity at the regional scale was realised in our non-
40
41 parametric multilevel analysis of both the range and frequency of cultural participation in
42
43 England. Even after controlling for individual socio-economic characteristics, we identified
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45 three area level clusters. Of all the active individual latent groups, the 'voracious omnivores'
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47 were distinct in being predominantly contained in one area level cluster. Place, therefore, is
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49 integral to the consumption habits of those in the 'voracious omnivore' group both in terms
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51 of the unparalleled supply of available cultural items (inner city London) and the likely
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53 interaction of likeminded individuals in an active social network. While individuals in the
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55 'voracious' omnivore group may reside in similar locations to themselves reflecting shared
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3 cultural attitudes, values, preferences and habits, it is also apparent, given that we control for
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5 shared socio-economic characteristics that the underlying mechanism behind these cultural
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7 patterns at the area level is likely to be contextual in nature.
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11 Despite the robustness of our findings, there are some limitations. Due to data limitations we
12
13 were unable to include home-based consumption based items which are most often
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15 undertaken by individuals lower in the social hierarchy. Clearly, future work needs to include
16
17 both out-of-the house and home-bound activities to offset any concerns about measurement
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19 validity and to corroborate the existence of different lifestyle groups in England and the
20
21 socio-economic make-up of these groups identified here. More generally, when
22
23 distinguishing between omnivore groups, there is a lack of data about why some individuals
24
25 engage more frequently than others, for what purpose and with what expectations. Here
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27 (along with other scholars) we hypothesise why but there is a lack of large N survey evidence
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29 at the individual level which seek to explain this behaviour. Survey questions/modules that
30
31 unpick and differentiate between key drivers and motivations would aid our general
32
33 understanding about why individuals seek to become insatiable consumers. It is also
34
35 imperative, from our evidence here, that such surveys contain geographical information at
36
37 various spatial scales so that individuals can be placed in different settings, alongside network
38
39 data, to gauge the importance of contrasting mechanisms.
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44
45 One of the key findings of this paper is that the ‘voracious omnivores’ were distinct in being
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47 predominantly contained in one area level cluster. Here we identified that place is important
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49 and we identify the possible processes that could explain this but determining the actual
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51 mechanism is beyond the scope of the paper given the data available. But it should be the
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53 focus of further work. In combination with survey data, future research should examine
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55 whether ‘voracious omnivorism’ exists as an individual trait – where individuals seek out
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57 locations containing similar minded individuals and influence others through networks in a
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3 variety of different contexts – or whether it is a behaviour that is furthered in some contexts
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5 but not in others. There is some existing evidence of the former. A number of studies have
6
7 shown that omnivores benefit from a broader and more diverse social network, where they
8
9 can display knowledge gained from interaction with individuals in different social circles
10
11 which in turn reinforces social approval within these circles (Lizardo, 2006; Kane, 2004;
12
13 Relish, 1997). Furthermore, Widdop et al, (2014) find that whilst education and class remain
14
15 important aspects of the omnivore-univore thesis, consumption is mediated and constrained
16
17 through networks. They note that networks play a much more significant role in shaping
18
19 cultural behaviour than the theoretical frameworks suggest. Moreover, networks even in the
20
21 age of social media tend to be grounded geographically. Therefore, our findings offer support
22
23 to the role of networks and relational mechanisms (Crossley, 2011) in mediating
24
25 consumption, in that, network structure is different in different places. But the evidence is far
26
27 from conclusive with the urgent need for network questions or modules in different contexts
28
29 attached to respondent data.
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34
35 Despite the existence of three area level clusters and a distinct area level typology with a
36
37 higher than average probability of containing those from the ‘voracious omnivore’ individual
38
39 latent group, it is impossible to be certain that prevailing contextual influences dominate
40
41 without further testing. Here we used the regional scale. In light of the scholarly theoretical
42
43 contributions outlined in this paper, it is probable that the underlying mechanisms which may
44
45 explain any contextual effects are more likely to occur at much lower levels of geography.
46
47 Indeed, the clusters exhibited here may reflect aggregations of much finer contextual effects.
48
49 It was apparent, for instance, that ‘voracious omnivores’ were evident in the Area A
50
51 (‘Moderately Active’) cluster, possibly reflecting the existence of area clusters at much
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53 smaller spatial scales e.g. smaller cities or towns, local neighbourhoods or perhaps network
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55 based clusters from the work place etc. On the assumption of data availability at these
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3 different spatial scales and further computational advances, statistical testing simultaneously
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5 across the range of geographies along with network data will allow cultural scholars to
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7 pinpoint at which scale such contextual processes operate and the underlying processes at
8
9 play. Place remains vital to our understanding of cultural behaviour. While scholars continue
10
11 to explore different dimensions of omnivorousness through volume and composition, the role
12
13 of place and the different contextual mechanisms in which such insatiable consumption
14
15 occurs remains largely ignored. Here we have taken a first step in readdressing this
16
17 anomaly.
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19

20 21 22 23 24 **Endnotes**

25
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27 ¹ Our measure examines one dimension of the “how”. Literature that considers different ways of consuming the
28
29 same cultural material theoretically could go beyond the frequency question and as such provides a further
30
31 dimension of “how”.
32

33
34 ² Conventional random effects models make strong assumptions about the distribution of the higher level
35
36 variance and is computationally intensive hence we use the non-parametric modelling approach here.
37

38
39 ³ We use the Bayesian Information Criterion (BIC), the Akaike Information Criterion (AIC), and the Consistent
40
41 Akaike Information Criterion (CAIC) because they weight both model fit and parsimony and are useful to
42
43 compare models. A lower BIC value is preferred over a model with a higher BIC value.
44

45
46 ⁴ We use the Latent Gold software package.

47
48 ⁵ The English regions in this area cluster include: North East, North West, Merseyside, South Yorkshire, East
49
50 Midlands, West Midlands and West Yorkshire.

51
52 ⁶ Regions in this cluster can be found in the North of England and include metropolitan areas - Greater
53
54 Manchester and Tyne and Wear – and the more rural North Yorkshire.
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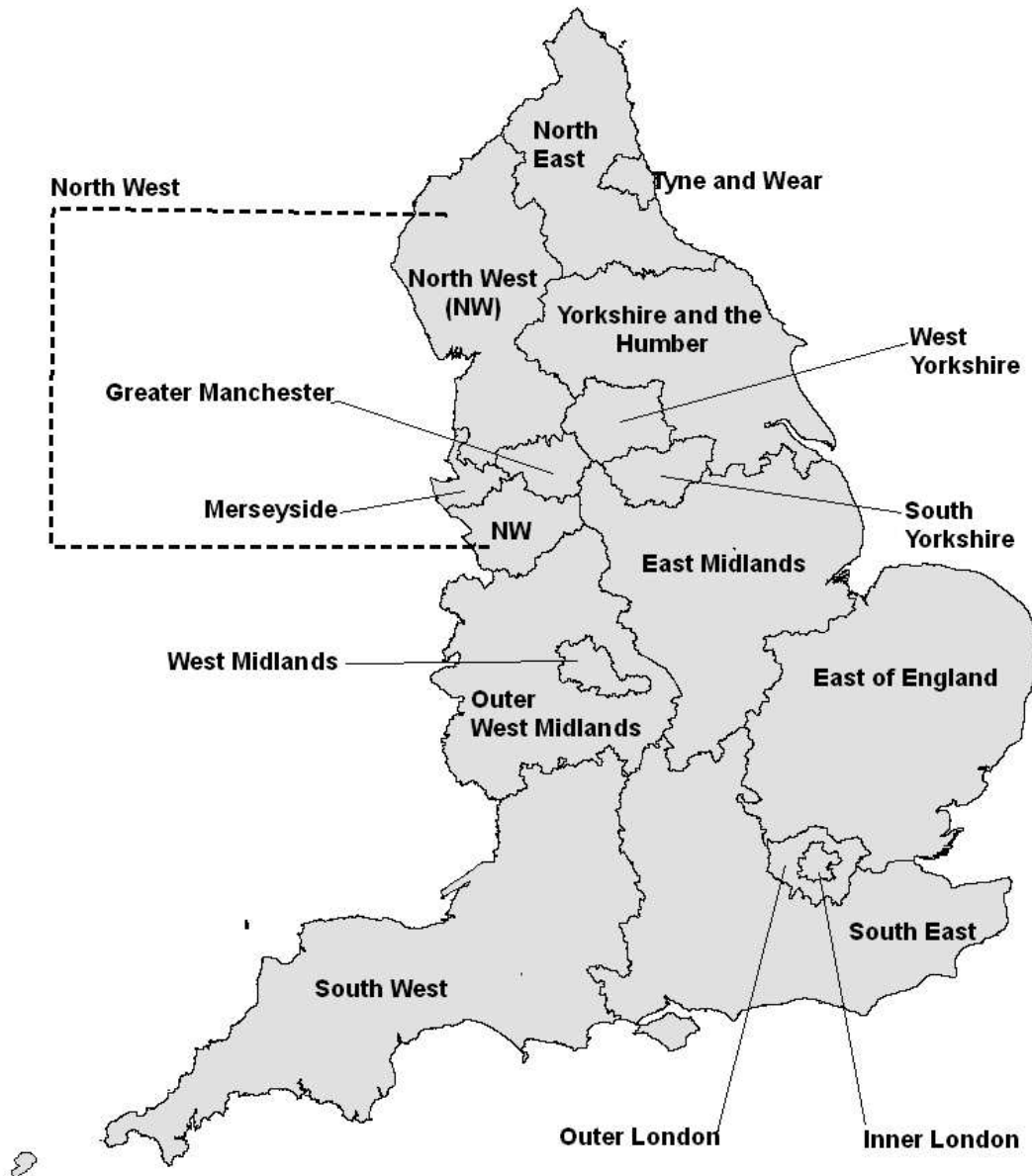
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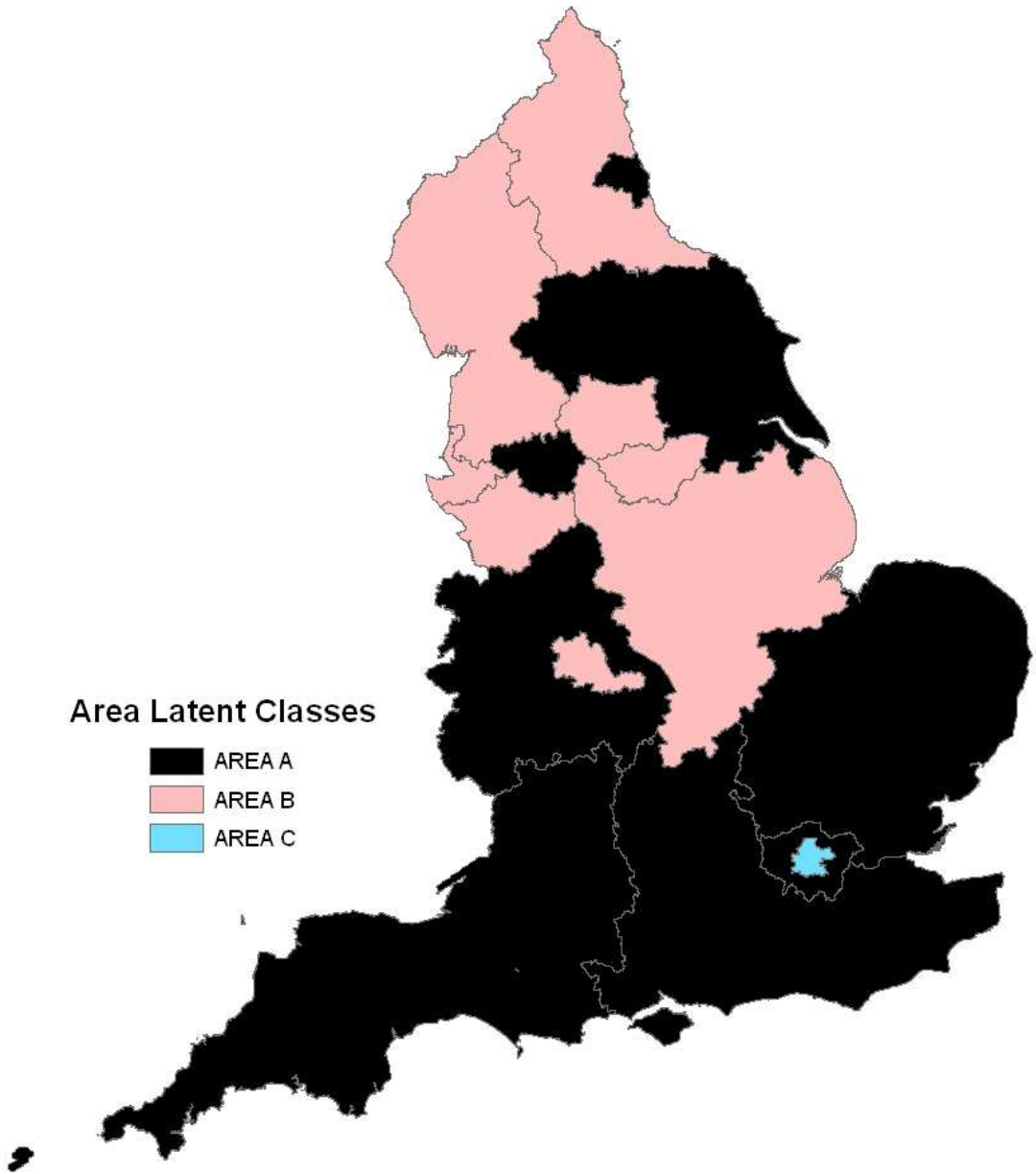
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Figure I: Map of England (Regions included)



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Figure II: Map of area typologies derived from multilevel latent class analysis



Tables

Table I. Cultural Participation Frequency in England (TPS 2005-06; percentages)

Cultural Item	Never	1-2 times a year	3 or more times a year
Movie in theatre	51.4	13.4	35.2
Museum or art gallery	59.6	25.0	15.5
Live drama	78.7	11.5	9.8
Live pop/rock music concert	83.8	8.7	7.6
Classical or opera performance	90.0	6.4	3.7
Ballet performance	96.3	3.0	0.7

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4 **Table II. Results of the estimated cluster models, covariates included (TPS 2005-**
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7 **06)**

Classes	BIC	AIC	CAIC
1-Class	207500	207368	207516
2-Class	197391	197152	197420
3-Class	196162	195816	196204
4-Class	195858	195405	195993
<u>5-Class</u>	<u>195840</u>	<u>195279</u>	<u>195908</u>
6-Class	195867	195299	195948

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Table III. Conditional probabilities of participating ‘3 or more times a year’, ‘1-2 times a year or ‘Never’ in a certain cultural activity, given that the individual belong to one of the five clusters (TPS 05-06)

	Class 1	Class 2	Class 3	Class 4	Class 5
Class Size	0.06	0.17	0.16	0.28	0.33
Class Typology Label	<i>Voracious Omnivore</i>	<i>General Omnivore</i>	<i>Highbrow Group</i>	<i>Univores</i>	<i>Non participants</i>
<i>went to a movie in theatre</i>					
3 or more times a year	0.75	0.75	0.23	0.50	0.01
1-2 times a year	0.11	0.13	0.20	0.20	0.06
Never	0.14	0.12	0.57	0.30	0.93
<i>visited a museum or art gallery</i>					
3 or more times a year	0.69	0.31	0.20	0.06	0.03
1-2 times a year	0.23	0.42	0.40	0.23	0.11
Never	0.08	0.27	0.40	0.70	0.86
<i>went to a live drama</i>					
3 or more times a year	0.66	0.19	0.13	0.02	0.01
1-2 times a year	0.19	0.27	0.21	0.07	0.02
Never	0.14	0.54	0.66	0.92	0.98
<i>attended a live pop/rock music concert</i>					
3 or more times a year	0.12	0.25	0.01	0.09	0.01
1-2 times a year	0.09	0.25	0.03	0.10	0.02
Never	0.79	0.50	0.95	0.81	0.97
<i>attended a classical or opera performance</i>					
3 or more times a year	0.38	0.01	0.07	0.00	0.00
1-2 times a year	0.35	0.10	0.17	0.00	0.01
Never	0.27	0.89	0.76	1.00	0.99
<i>attended ballet performance</i>					
3 or more times a year	0.08	0.00	0.01	0.00	0.00
1-2 times a year	0.23	0.04	0.05	0.00	0.00
Never	0.69	0.96	0.94	1.00	1.00

**Table IV. Conditional probabilities of belonging to the different classes given
response category of the variables within the model**

Overall Probability	<i>Voracious Omnivore</i>	<i>General Omnivore</i>	<i>Highbrow Group</i>	<i>Univores</i>	<i>Non participants</i>
<i>Occupational Status</i>					
Large employers & higher managerial	0.08	0.07	0.06	0.02	0.02
Higher professional	0.16	0.09	0.07	0.03	0.02
Lower professional managerial	0.40	0.30	0.27	0.14	0.09
Intermediate	0.14	0.17	0.20	0.17	0.11
Small employers/own account workers	0.07	0.06	0.07	0.07	0.08
Lower supervisory & technical	0.02	0.05	0.08	0.12	0.13
Semi routine	0.04	0.08	0.13	0.18	0.19
Routine	0.01	0.03	0.06	0.13	0.25
Student	0.08	0.14	0.04	0.10	0.04
Never worked	0.01	0.00	0.02	0.03	0.08
<i>Educational</i>					
Level 4/5	0.77	0.57	0.43	0.22	0.09
Level 3	0.10	0.21	0.12	0.19	0.07
Level 2	0.06	0.14	0.16	0.28	0.14
Level 1	0.01	0.03	0.04	0.12	0.05
Other Qualifications (Trade)	0.01	0.01	0.05	0.04	0.06
No Qualifications	0.04	0.03	0.21	0.15	0.59
<i>Gender</i>					
Male	0.36	0.44	0.40	0.48	0.47
Female	0.64	0.56	0.60	0.52	0.53
<i>Age</i>					
16-24	0.02	0.16	0.00	0.23	0.03
25-44	0.22	0.60	0.13	0.57	0.20
45-64	0.53	0.24	0.42	0.20	0.33
65+	0.23	0.00	0.44	0.00	0.44
<i>Ethnicity</i>					
White	0.96	0.93	0.90	0.76	0.86
Mixed race	0.01	0.01	0.01	0.02	0.01
Asian	0.02	0.03	0.03	0.14	0.06
Black	0.00	0.02	0.04	0.07	0.05
Chinese or other	0.01	0.01	0.01	0.02	0.01

Table V. Probabilities of cultural class sizes given membership of an area level segment

	AREA A	AREA B	AREA C
<i>Area Class Label</i>	<i>Moderately Active</i>	<i>Inactive</i>	<i>Frequent Omnivores</i>
<i>Area Class Size</i>	0.48	0.44	0.08
Non-Active Participants	0.31	0.38	0.32
Univores	0.29	0.29	0.20
Highbrow Group	0.16	0.16	0.16
General Omnivores	0.18	0.15	0.16
Voracious Omnivores	0.06	0.02	0.16

*Bold denotes the larger probabilities of latent class size given membership of an area type.