



Sociolinguistic and Geolinguistic Approaches to the Historical Diffusion of Linguistic Innovations: Incipient Standardisation in Late Middle English

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ABSTRACT

The diffusion of linguistic innovations and changes has become a common object of sociolinguistic and geolinguistic research. As such, the process has been studied from four complementary perspectives: (a) the communicative or interpersonal, (b) the time dimension, (c) the social perspective and (d) the geographical or spatial. Despite the successful application of these methodologies to tracing the diffusion of innovations in progress and recently attested changes, attention is hardly ever given to reconstructing these four dimensions in connection with the diffusion of changes in the past. In this paper we consider the possibility of applying these methods and findings to the different facets of the diffusion of a well attested change in the history of English: the spread of incipient standard spellings from London in the late Middle English period. Particular attention is given to the unfolding of this process in the course of time, its diffusion across social ranks and networks, as well as to its possible geographical circulation.

KEYWORDS: sociolinguistic diffusion, social network, social rank, geolinguistic diffusion, English standardisation.

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I. INTRODUCTION

Diffusion is one of the areas that modern sociolinguistic research is recently privileging. At large, this is the process by means of which linguistic innovations and changes are "communicated through certain channels over time among the members of a social system" (Rogers 1985: 5). The interest of modern linguists in diffusion refers mainly to the synchronic task of tracing the courses of innovations in progress or recently attested changes. In contrast, attention is hardly ever given to reconstructing the diffusion of changes in the past, which very often are still discussed in handbooks on the history of languages as relatively static and inolithic processes (of the type OE /a:/ > ME /ɔ:/), without showing great concern with either discovering the social and geographical origins of the changes, or their extension in the course of time. Obviously, this exercise is complicated and demands to "make the best use of bad data" (Labov 1994: 11). However, we believe that the recent advances in historical (socio)linguistics have contributed to overcome some of these difficulties and, as a result, are inclined to apply the tenets that have guided research on the diffusion of present-day changes in progress to past stages of language development.

II. SOCIOLINGUISTIC AND GEOLINGUISTIC APPROACHES TO THE DIFFUSION OF LINGUISTIC INNOVATIONS

An integral approach to diffusion entails that the process is seen at least from four different angles: (a) the individual or communicative dimension, the transmission of innovations and changes' from one individual to another as a result of interpersonal acts of communication; (b) the temporal one, the logical demand that diffusion unfolds in the course of time and the special patterning that it may adopt accordingly; (c) the social perspective, the conditions afforded by the social system and structure; and (d) the effects of space, the relocation of innovations from one place to another and the possibility that traces of one linguistic variety can be found in areas that are geographically apart.

II.1. The individual or communicative dimension

In the late 1920s, the philologist Henry Cecil Wyld, in attempting to connect certain changes in the English language to the linguistic production of the late Middle Ages, proposed that "[t]he drama of linguistic change is enacted not in manuscripts or inscriptions, but in the mouths and minds of people" (1927: 21). This risky statement at the time has nowadays turned into one sociolinguistic truism historically unattended: "it is speakers and not languages that innovate" (Milroy: 1992: 169). A basic and widely accepted tenet, in this respect, is that linguistic changes are the result of the communicative activity of speakers in face-to-face interaction and that interpersonal contact is a requisite for innovations and changes to diffuse (Trudgill 1986: 40; 1992: 76).

In all respects, the development of social psychology in the last decades of the 20th

century, and particularly the theory of *linguistic accommodation* (see: Giles 1973 and Giles, Taylor & Bourhis 1973), inasmuch as a dialect contact process, have provided plausible explanations for the spread of linguistic features from one speaker to another. Accommodation is the modification of the speech produced by speakers of different linguistic backgrounds when they are in conversational face-to-face interaction. In general terms, the process is determined by attitudinal factors —like solidarity between individuals, the importance of meeting with the approval of interlocutors, or the imitation of some characteristics of the speech of prestigious speakers— and one of its outcomes is linguistic convergence/divergence: the reduction or increase of dissimilarities in the linguistic production of speakers in contact, when the salient features of one's repertoire are imitated by the other(s). Sociolinguists have also pointed to the cumulative structural effect of microacts of linguistic accommodation in the course of time (long-term accommodation): limiting the differences between varieties in contact by facilitating the diffusion of innovations from one to the other (Trudgill 1986).

11.2. Diffusion in time

Linguistic changes result from the initial coexistence of at least two variants within a speech community and, eventually, from the systematic and, normally, unidirectional replacement of one with the other in the course of a period of time. Linguistically speaking, change goes through a number of stages in the transition from a categorical use of one variant to its categorical replacement by another (see: Bailey 1973). Table 1 displays the progress of diffusion in the course of time and through linguistic environments.

Table 1: Variation model of change (Wolfram & Schilling-Estes 2003: 716)

| Stages of Change | Characteristics | Linguistic Environment | |
|------------------|--|------------------------|----------------|
| | | E, | E _x |
| Stage 1 | Categorical status, before undergoing change | X | X |
| Stage 2 | Early stage begins variably in restricted environment | X Y | X |
| Stage 3 | Change in full progress, greater use of new form in E, where change first initiated | X Y | X Y |
| Stage 4 | Change progresses toward completion with movement toward categoricity first in E, where change initiated | Y | X/Y |
| Stage 5 | Completed change, new variant | Y | Y |

By splitting time into fractions, historical linguists have been able to consider different rates of diffusion of changes in progress and have proposed that a great number of them extend gradually along generations of speakers and contexts of usage (normally the lexicon), adopting a typical S-pattern: they start slowly, then speed up at the intermediate stage of development and spread like a snowball from one speaker to another; finally, they lose momentum and decelerate until slowly again they become general (Chen & Wang 1975; see also: Aitchison 1991: 80-88). A

result of this proposal is the distinction of stages within the S-curve and the interesting observation that any given linguistic process behaves differently in each of the phases: 'incipient', 'new and vigorous', 'mid-range', 'nearly completed' or 'completed' (see: Labov 2001: 166-171).

11.3. The social dimension

Modern sociological research has resulted in the widely accepted tenet that diffusion entails social changes of a greater or lesser order. More relevant for our purposes here is the idea that innovations occur within social systems and that their diffusion is highly conditioned by the system's structure. In this sense, the application of the *social network theory* to the diffusion of linguistic innovations and changes has proved to be a successful sociolinguistic explanation of the process (see: L. Milroy 1980; Milroy & Milroy 1985).

James and Lesley Milroy have pointed to the existence of a covert and informal pressure for the individual to maintain the linguistic variety that he or she normally uses. This is exerted by the members of his or her own social network —those related to him or her by kin and friendship. This norm-enforcing pressure is stronger when the ties are dense and the network is close-knit: virtually everybody knows everybody else in the group and their mutual relationship affects more than one sphere (profession, family, acquaintance, etc.). Situations like this prevail at the highest and lowest social layers of the speech community and usually result in resistance to the forces of innovation. Nevertheless, there are also social and geographically mobile speakers falling in between. These individuals, who, by virtue of their social and spatial mobility, may establish weak ties within loose-knit networks, are more exposed to linguistic pressures originating outside the group. Particularly when they belong to upward mobile sections of the population they are highly liable to be linguistically influenced, either in a covert way, when the speech habits that they adopt are characteristic of speakers from the highest strata, or overtly, when the variety is enforced by the institutions through public channels. It seems, therefore, that the social and geographical mobility of potential adopters contributes to the diffusion of innovations and that weak ties between different groups provide the bridges for the process to unfold: they promote the establishment of interpersonal contacts between a great number of speakers —greater at least than those afforded by strong ties and close-knit communities —, they are established with a lot less effort and, finally, they facilitate contact with different linguistic varieties (J. Milroy and L. Milroy 1985: 363-366; L. Milroy 1980: 209; L. Milroy and J. Milroy 1992: 5-10). Lesley and James Milroy have also stated that the micro-level type of analysis based on networks cannot be dissociated from —and is in no way contrary to— the macro-level analysis based on social structure. In this sense, they have constructed a two-level sociolinguistic theory, "linking small-scale structures such as networks [...] with larger-scale [...] social structures [...] that themselves give rise to the social and geographical mobility associated with loose-knit networks" (L. Milroy and J. Milroy 1992: 16).

11.4. Geolinguistics and the spatial diffusion of innovations

Geolinguistics, as conceived by Trudgill & Chambers (1980), is primarily concerned with the relationships between language and geography: the study of language in its geographical context, in addition to the socio-cultural ones (see: Britain 1991, 2002; Hernández-Campoy 1999), or, more specifically, the study of "the geographical dispersions of linguistic elements" (Chambers 1982: 1). This plain definition makes the subject a useful locus for the analysis of the geographical settings where the maintenance or shift of language features take place and, particularly, for the relevance of geographical aspects to the study of linguistic innovation and change: in the same way as the linguistic variable, with the help of sociological theory and methods, can improve our knowledge of the relationship between language and society, "the linguistic variable, together with a number of methodological and theoretical insights from human *geography*, can improve our knowledge of the relationship between language and geography, and of the geographical setting of linguistic change" (Trudgill 1983: 52)². From a geolinguistic perspective, three factors are of paramount importance in the study of the spatial diffusion of linguistic innovations: (a) the population density of the areas involved and its distribution, (b) the geographical distance between them, and (c) the distance or similarity of the linguistic systems peculiar to each area.

Population density and distribution are important ingredients in the study of the spatial diffusion of linguistic elements, if only because of the unquestionable tenet that the larger the population of an urban centre is, the higher the probability that an individual from elsewhere may establish interpersonal contact with a speaker from that city (Trudgill 1986: 40; 1992: 76). In fact, one interesting aspect posited by Human Geography is the possibility of considering every single urban centre from an interurban perspective—regarding its form, size, function, historical transformations, etc. This, eventually, may inspire the establishment of a hierarchy of central places (see: Christaller 1966), as regards the flow systems amongst the different settlements, and lead to the exploration of the influence of one over the others in correlation with demographic and functional distance. The former is attained by calculating the differences in population size between the settlements, while the latter considers, in connection to population size, the kind of activities and functions (services)—administrative, defensive, cultural, etc.—associated with each of the urban nuclei and the agglutinative force derived from them (Jones 1990).

The significance of geographical distance is connected to the communicative dimension mentioned above. Given that face-to-face interaction is crucial in the process of diffusion and adoption of linguistic innovations and that communication is an act that decreases with distance, then the nearest to the source of innovation (or to a centre where it has already been adopted) the potential adopting unit is, the greater the possibility of being adopted will be. We believe that physical distance, and the neighbourhood effect that results from it (see: Rogers 1985), are basic geographical components in the analysis of spatial diffusion, if only because of the truly evident tenet—stated by Trudgill (1992: 76)—that "people, on average, come into contact most often

with people who live closest to them and least often with people who live furthest away". Yet distance does not have a linear relation to interaction, since the extent of influence from the source of innovation to the nearest potential unit is inversely proportional to the distance between them and directly proportional to their size (range). That is, communication (interaction) is a function that decreases with distance and size. Thus, the *gradient principle* (see: C. Clark 1967 and W. Clark 1982), together with the possible neighbourhood effect, are decisive during the hierarchical irradiation of the innovative influences generated in the diffusion nuclei of a change, emphasizing the decreasing effect of innovations with distance and population size.

Geolinguistics also takes into consideration the third factor mentioned above: the distance or similarity between the linguistic systems peculiar to each area. This is fairly important for the study of the diffusion of linguistic innovations, because the higher or lower compatibility of an innovation with the characteristics of the variety receiving it will make the process of adoption easier or more complicated. Quoting the words of Trudgill (1974: 234) "it appears to be psychologically and linguistically easiest to adopt linguistic features from those dialects or accents that most closely resemble one's own, largely, we can assume, because the adjustments that have to be made are smaller".

In order to explain the reasons why a given innovation appears and spreads to a centre B from A rather than C, for instance, *gravity models* have been devised (see: Hagerstrand 1952). These probabilistically-based models are intended to reflect the interaction between two or more centres and the possibilities of mutual influence on account of their respective population sizes and the distance from one to the other (*population potential index*). The model was originally borrowed from Newton's *law of universal gravitation* and adapted by geographers and sociologists with the aim of mathematically establishing the possible movements of population, goods or information between related urban centres. Paraphrasing Newton's law, the movement between two cities (M_{ij}) is directly proportional to the product of the population sizes (P_i and P_j) and inversely proportional to the square of the distance between them (D_{ij}). In fact, although people are not molecules, they can be regarded as predictable in their aggregate behaviour on the basis of mathematical probability (Jones 1990: 189).

Two main patterns of spatial diffusion have been established: relocation and expansion. The former is a change in the spatial situation of a given feature without any increase in the number of individuals that possess it, while the latter entails an actual increase in the total number of individuals affected by the innovations at different localities (Bailey *et al* 1993: 366). Normally, linguistic diffusion expands, adopting any of the following patterns: epidemic, hierarchical or contra-hierarchical. In the case of epidemic (or contagion) diffusion the spread is centrifugal, from the source of the innovation outwards, in connection to the proximity of actual and potential adopters in interaction (see: figure 1). The neogrammarian wave theory is founded on this type of diffusion, where some linguistic changes are perceived as radiating from a focal area and reaching physically nearby locations before those at greater distances.

Hierarchical (or *cascade*) diffusion implies that transmission occurs along a system of ordered nuclei, first horizontally between centres of the same size or weight, and then vertically, down the hierarchy, to smaller places (see: figure 2). The opposite process characterizes contra-hierarchical diffusion, when innovations move from small (usually rural) spaces to larger (urban) ones.

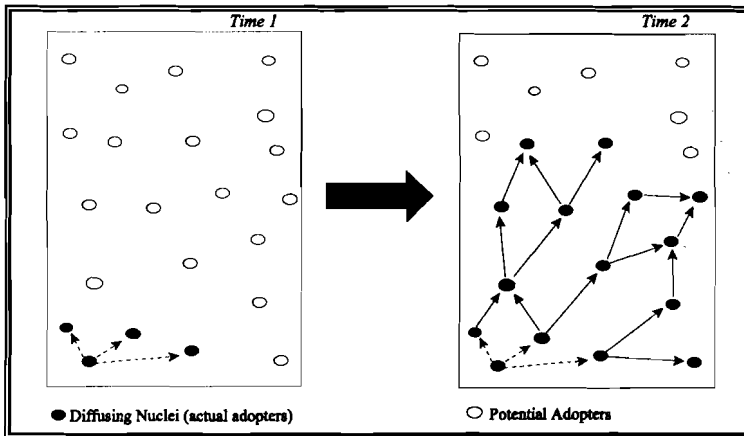


Figure 1: Epidemic structure of diffusion (Abler, Adams & Gould 1971: 390)

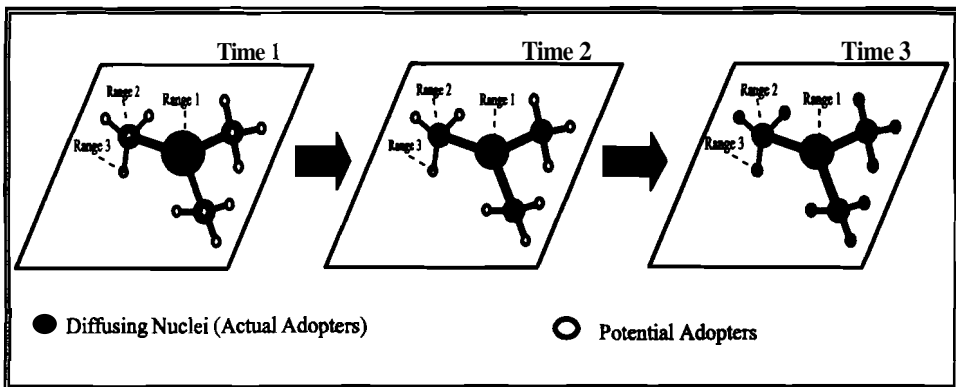


Figure 2: Hierarchical structure of diffusion (Hernández-Campoy 1999: 268)

A most likely and frequent pattern of the geographical diffusion of linguistic innovations, at least in the industrialised Western World, is the hierarchical one, as attested in studies by among others, Trudgill in East Anglia (United Kingdom) and Brunlanes (Norway) (1974, 1983, 1986), Callary in Illinois (1975), Britain in the East British Midlands (1991), Boberg in the border between Canada and the USA (2000) and Hernández-Campoy in Murcia, the Southeast of Spain

(2003a, 2003b). Generally speaking the process is connected to "the general economic, demographic and cultural dominance of towns over country and the structure of the communication network" (Trudgill 1995: 147-149), which means that innovations normally arise in large, heavily populated areas that have historically been powerful socioeconomic and cultural centres, and spread out from there to other moderately sized cities falling under the area of influence of the larger focal centres, thence to towns, until they ultimately and gradually reach the smallest and most sparsely populated villages, even though they are quite close to the original focal area.³

III. A CASE STUDY

111.1. Tracing the diffusion of linguistic innovations in past stages of language development

Tracing the diffusion of linguistic innovations and changes in the past is a difficult, if not an impossible, task, in view of the necessity of "mak[ing] the best use of bad data" (Labov 1994: 11): written materials, which have very often survived by sheer chance and are isolated from their immediate communicative background, so that they can hardly be correlated with the original social and stylistic contexts of production and reception. In spite of these inconveniences, the work of some historical sociolinguists in the late decades of the 20th century (see, among others: Romaine 1982; Nevalainen & Raumolin-Brunberg 1996; 2003) has contributed to overcome some of these difficulties and, by refining research tools, have allowed scholars to apply the methods and conclusions of recent sociolinguistic studies to a diversity of diachronic materials. One area of research within historical linguistics which may lend itself to the application of the sociolinguistic approach is the process leading to the standardisation of national languages during the late Middle Ages and the Renaissance, when the centralized national states of Europe were formed. The basic reason is that standardisation is normally an overt process, which works 'from above' —if we adhere to the classical sociolinguistic terminology (Labov 1972)— and that, as a result, it may be easier for historical linguists to detect the circumstances that accompanied the diffusion of innovations associated to standard processes than to trace the extension of other types of changes, whose courses in the past may remain obscure.

Methodologically, it is assumed that the historical implementation of written standard norms requires the 'selection', 'acceptance', 'functional elaboration' and 'codification' of the linguistic variety which —for political and/or socio-economic reasons— is to become dominant amongst a series of historically and geographically related ones (Haugen 1966; Leith 1997: 31-34). It should be clear, therefore, that diffusion ('acceptance') is an essential component of the process of standardisation, which should be understood, with the perspective afforded by modern sociolinguistic and geolinguistic research, as the extension of some linguistic features in the course of time, over social and geographical spaces, as a result of communicative interaction. In fact, two main factors may contribute to trigger the diffusion of incipient standard spellings: firstly, the necessity of ensuring that certain texts and documents (administrative, legal, scientific,

etc.) are properly understood by limiting the variability of spelling forms within them; and secondly, the prestige associated with certain graphemic variants (often derived from the above text-types) which makes them worthy of imitation by people **outside** the geographical area or social group within which the variety **arose** (Sandved 1981). As a result, scholars dealing with the diffusion of written standard norms should consider, for a start, the **correlation** between the achievements of uniformity in the writings of individuals, their social **level** and geographical location, and, in a second stage, the circulation of prestigious spelling forms between the different groups and individuals located at **diverse** social levels and geographical spaces **within** the speech community. In this sense, we believe that the recent attempts at correlating standardisation with the upward social aspirations and mobility of **some** speakers may yield fruitful conclusions. Similarly, the employment of 'social networks' for the observation of language use, in connection with social status and mobility, could be useful, from our point of view, for examining the diffusion of standard written norms over the social space. **Furthermore**, concerning the spatial diffusion of incipient standard variants, we understand that the proposals of geolinguistics may **also** be considered in connection with the historical stages of language development. As Britain has stated "[t]he analysis of spatiality is critically important if we wish to fully understand the processes involved [...] in the diffusion of linguistic innovations" (1991: 251-252), and this tenet, in our opinion, should hold for both present and past states.

III.2. A sociolinguistic approach to the diffusion of incipient standard practices in late Middle English

Recent approaches to the subject of English standardisation **have** rejected the traditional assumption that written standard English derives from a single ancestor. Instead it is widely acknowledged, in accordance with variationist methodology, that the process implies the 'selection' of "linguistic features from a range of dialects" (Hope 2000: 51), including the prestigious varieties of London which, from the late 13th century, were at different times and localities promoted to the status of incipient standard norms (see: **Samuels** 1963; 1972: 165-170). The standardisation of written English is not **seen** any longer as a "linear, unidirectional development", but as "a set of processes which occur in a set of social spaces, developing at different rates in different registers, in different idiolects ..." (Wright 2000: 6; cf. **also**: Wright 1996). In this paper we **assume** this perspective and will concentrate on the diffusion from London of certain graphemic features, that in the course of time were to **become** common standard practices.

A number of publications **have** yielded important **findings** as regards the meaningful distribution of spelling variation in this period of the history of English, as well as the spread of **some** of these incipient standard **spellings**.⁴ However, there are few reviews of their adoption by individuals belonging to the different social ranks and network structures in the period. One obvious reason is the unfeasibility of describing the social networks of speakers who died five

centuries ago. Another complication is that the assumptions applied by James and Lesley Milroy to contemporary linguistic situations can hardly be extended to the fifteenth and sixteenth centuries: the life-modes in which contemporary western society is divided (self-employed, ordinary wage-earner or high professional) or the **importance** attached to public channels in the diffusion of innovations, for instance. These difficulties do not discourage our attempt to assess the validity of social network theory for delineating the characteristics of the individuals from **certain** social levels who may **have** adopted standard written practices in late medieval England, and contributed to their diffusion. In this sense, the Uniformitarian Principle formulated by William Labov —the idea that languages varied in the same patterned ways in the past as they **have been** observed to do today (Labov 1972: 275; 1994: 21-25) — allows us to believe that the linguistic behaviour of late fifteenth century speakers may **have been** determined, to **some** extent, by attitudes to prestige, by social status and mobility as well as by the everyday contacts of individuals. **In** a sense, we are **also** lucky that **some** collections of late fifteenth century English **private** correspondence —like the Paston, the Cely and the Stonor letters — **have been** preserved and that we can make use of them, firstly, to trace the progress in the early adoption of incipient standard spellings and, secondly, to establish the general profile of the individuals who adopted them in the period. The diversity of types of interaction and styles reflected in **private** letters (wider than those afforded by official and **literary** documents), and the fact that they are authored texts, **provide** us with a context where personal information (gender, age, social status, social network and geographical location) can be traced, **and** supply the data necessary for the proper extension of sociolinguistic and geolinguistic methods to historical language **states**.⁵

III.2.1. The diffusion of historical innovations in the course of time

In a pilot study (Hernández-Campoy & Conde-Silvestre 1999) we attempted to trace the extension of spellings that were to **become well-established** standard practices across the eleven letters written by members of the Paston family, from Norfolk, included in the diachronic **part** of the *Helsinki Corpus of English Texts*. The letters were sent and received by four correspondents that belonged to different generations of the family, between 1425 and 1472: a period of 47 years which was crucial for the implementation and diffusion of innovations from London. **In fact**, that members of the family progressively adopted them **is expected** in view that **some** migrated to London and could **have** established contact with the prestigious varieties from the metropolis.

This was possibly the case of *William Paston I* (1378-1444), the only son of Clement, a yeoman **farmer** from Norwich who founded the Paston family. **Despite** these humble origins, William was trained as a lawyer and had a successful career in London, where he **became** Justice of the Common Bench. Three letters by William Paston are included in the *Helsinki Corpus*: they are all official letters dealing with **some** of the lawsuits with which, as a lawyer, he was concerned. Consequently, they are **all** written in a formal style between 1425 and 1430, when he

was in his late 40s or early 50s. The corpus also includes three letters which William’s youngest son, *Clement II* (1442-1479) wrote to his brother John I (1421-1466) between 1461 and 1464, when the former was in his early 20s. They deal with everyday affairs and problems over the family states and provide us with familiar texts sent to an equal by a young man who is in London completing his education. Even though there are no letters in the *Helsinki Corpus* by John I, possibly because he spent most of his life in London as MP for Norfolk and was therefore a recipient rather than a sender of these documents, it offers a brief selection of three letters sent by *Margaret Paston* to her husband (John I) between 1448 and 1449. These letters also deal with family matters and lawsuits and provide us with important linguistic documents possibly written by a woman. It is also likely that Margaret did not write the letters herself, but the family clerk and chaplain—James Glowys—or other scribes connected to the family did so for her. Finally, the corpus includes two letters that *John Paston II* (1442-1479)—John and Margaret’s firstborn son—sent to his brother John III (1444-1504) in the years 1471-1472, when the former was in his 30s. In the paper mentioned above, we considered that, for the purposes of tracing the chronological diffusion of these innovations, information about the date when the letters were written and the age of each of the correspondents at the time was crucial and were scrupulous in their reconstruction (see: table 2).

Table 2: Background of informants and chronological ordering of letters (Hernández-Campoy & Conde-Silvestre 1999)

| Informant | Date of letters | Age | Style |
|--------------------------------------|-----------------|---------|----------|
| <i>William Paston I</i> | 1425-30 | 40s-50s | Formal |
| <i>Margaret Paston/Family clerks</i> | 1448-49 | ? | Informal |
| <i>Clement Paston II</i> | 1461-64 | 20s | Informal |
| <i>John Paston II</i> | 1471-72 | 30s | Informal |

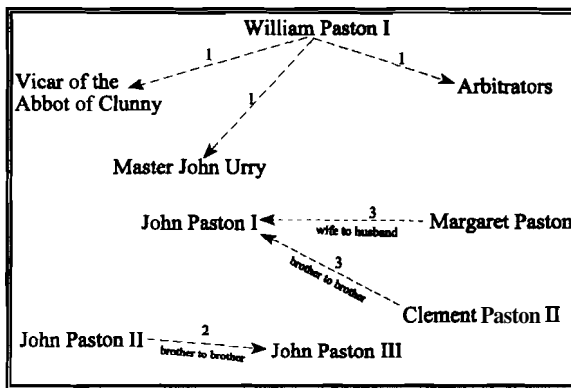


Figure 3: Relationship between senders and receivers of correspondence from the Paston family (Hernández-Campoy & Conde-Silvestre 1999)

We also believed that, in the case of a 'change from above', like the diffusion in writing of prestigious spellings, the formality or informality of the texts involved had to be considered and, as a result, we tried to reconstruct these characteristics on the basis of the relationship between senders and receivers and of the subject-matter (see: figure 3). Thus, the five letters exchanged between brothers and the three letters sent by a wife to her husband, all of them dealing with domestic family matters and lawsuits, were classified as informal and closer to the everyday language of the fifteenth century. However, the three official letters sent by William Paston I were taken as samples of formal style.

In this pilot study we considered only three orthographical variables: 1) Variable (sh), which refers to the spelling <sh> as used in the words *should, shall, worship* and *she*. In the texts it alternates with archaic spelling forms like <sch>, <ssh>, <ch> and even <x> in the case of the auxiliaries *shall* and *should*. 2) Variable (wh) refers to the spelling <wh> of the word *which*. Its spelling is not wholly regular throughout the documents; alternative spellings include the dialectal forms <qw> and <qu>, which may reflect the influence of northern usage. 3) Variable (u), finally, refers to the ME grapheme <u> as used in the ME words *such* and *much*. Alternative spellings for this grapheme include the regional forms <e>, <o> and <y> and the archaic ones <uy>, <wy> and <ui>.

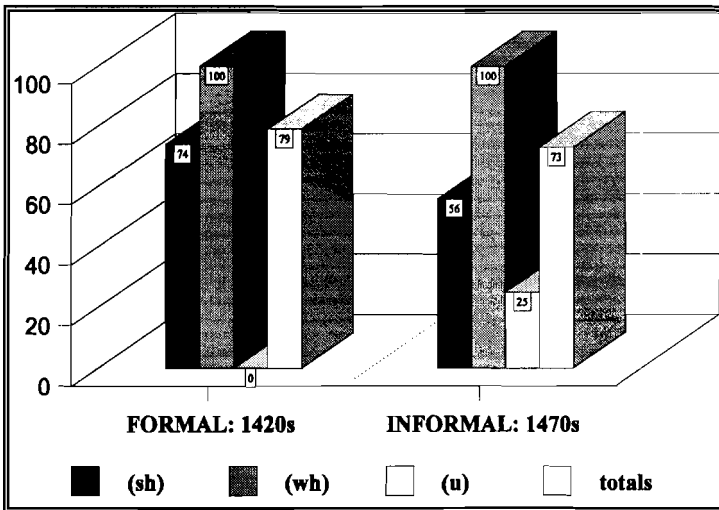


Figure 4: Percentages of standard spelling forms in connection to style in the Paston correspondence (Hernández-Campoy & Conde-Silvestre 1999)

Correlating the percentage of each variable with the style of the documents, as well as with age and time yielded interesting conclusions. If we believe that the implementation of 'changes from above', connected to standardisation, progresses from formal to informal styles

over time —the greater the frequency of standard forms in **informal/familiar** styles, the greater the degree of standardisation —, the comparison of the use of standard variants in the three formal texts written by **William Paston I** between 1425 and 1430 and those used in the informal letters written by his grandson **John Paston II** in the 1470s shows a noticeable step in the diffusion of these changes (see: figure 4): the rates of incipient standard variants used in formal texts in the 1420s (79%) is similar to the percentage that appears in **familiar** ones about 50 years later (73%) in the 1470s. This means that in the course of time the extension of the innovations advanced in a stable direction.

Progress in the implementation of each variable correlated **also** with the general chronological pattern. As figure 5 reflects, the variant <wh> for the variable (wh) seemed to **have** completed its course in the 1470s, having reached 100% in the informal contexts. The process of diffusion of the forms for both (sh) and (u) seemed, however, to be still in progress. Variable (sh) in particular was in a stage of great variability, having very **close** frequencies of usage for both the standard (56%) and the non-standard (44%) forms in the informal texts of the 1470s. This means that the form <sh> is still in transition. **However**, the use of <u> for variable (u) seemed to be still in the initial stages of change, being **wholly** implemented in **only** 25% of cases in informal texts of the same decade.

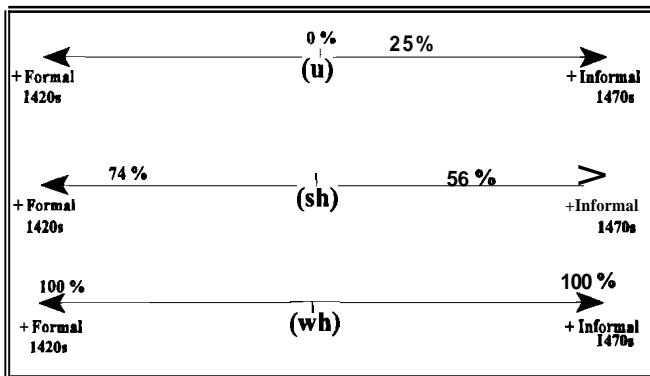


Figure 5: Process of diffusion of the standard forms in the letters of members from the Paston family (Hernández-Campoy & Conde-Silvestre 1999)

III.2.2. Diffusion across the social space: social ranks and social networks

We have attempted to trace the possible connection of **some** of these graphemic innovations with the social status and the social networks of potential adopters in "A Sociolinguistic Approach to the Diffusion of Chancery Written Practices in Late Fifteenth Century Private Correspondence" (Conde-Silvestre & Hernández-Campoy 2004). With this purpose, we **have** adopted the model of social stratification that Terttu Nevalainen and Helena Raumolin-Brunberg **have** successfully

correlated with linguistic variation in late medieval and Tudor England (Nevalainen & Raumolin-Brunberg 1994; Nevalainen 1996). On the basis of landownership, titles and lifestyle, they reconstructed a hierarchy of **three** basic ranks: nobility, gentry and non-gentry. Within some of these levels further divisions were introduced. Especially within the 'gentry', upper and lower ranks were established for knights, baronets and bishops, who formed the 'upper gentry', and for squires, gentlemen and ordinary **clergymen**, who were considered part of the 'lower gentry'. Similarly, additional segments were provided for the 'non-gentry', both urban (including merchants, craftsmen and **artificers**) and rural, although no **definite evidence** is available in this respect. Finally, Nevalainen and Raumolin-Brunberg proposed a rank for the 'professional order', which includes lawyers, government officials, army **officers** and teachers, among others, and, in view of the possibilities of social mobility at the time, conceived a category of 'social climbers' —**those** who "had successful careers and moved **several** degrees up the social ladder" (Nevalainen 1996: 58).

As regards social networks, it is not necessary to emphasize the impossibility of reconstructing them in the case of late-fifteenth century individuals. However, we believe that this construct remains a very important tool for historical linguistic research, even used at a societal level. **James** and **Lesley** Milroy (1985: 370) have concluded that societies undergoing economic processes that entail social and geographical mobility and the dissolution of **close-knit** networks, **provide** the conditions under which linguistic innovations may be transmitted. Such processes **have been** linked with industrialization in contemporary societies. Similar conditions **have been** noticed in England in the course of the late fifteenth century and throughout the sixteenth. The economic transformation of the Southeast Midlands and, particularly, the city of London, as important centres for the exportation of **corn**, wool and textiles in the late Middle Ages, led to the increase of demographic rates and the **growth** of immigration from **all** over the **country**. The expected social effect of this economic development was the preoccupation with social status. In addition, **some** factors, like a favourable **marriage**, involvement in trade, government contracting or the law, among others, may **have** favoured social mobility within this **highly** stratified and densely populated area. The **existence** of realistic chances of social promotion may **have** led many members of the middle ranks to aspire to the status of the upper ones, thus creating an atmosphere in which the **imitation** of social norms was a common phenomenon (see: Nevalainen and Raumolin-Brunberg 1989: 106; Raumolin-Brunberg 1996: 35). This practice may be extended to the extension of spellings from the written varieties which enjoyed prestige in the metropolis, and their consequent adoption by members from upwardly mobile sections of the population. Similarly, migration, economic **diversification**, urbanisation and better communications **all** concurred in the development of **loose-knit** social networks and in the increase of weak **ties** between individuals.

We believed that the new sociological structure could be correlated with upwardly mobile social ranks and with geographical mobility and that plotting the use of standard spellings against

social rank and network could allow us to trace how written norms were socially diffused. With this purpose, the previous analysis of a selection of letters from the Pastons was extended to a larger corpus of correspondence from different members of three families of the period: the Stonors, the Celys and the Pastons themselves (see: table 4). *Sir John Paston II* (1442-1479), *Sir John Paston III* (1444-1504) and *Sir William Stonor* (c. 1449-1494) —all of them knights— belonged to the 'upper gentry'. The 'lower gentry' was represented by the squire *Walter Elmes*, who in the 1470s and 80s acted as steward for Sir William Stonor, and by *Richard Germyn*, an Exeter squire, who seems to **have been** in charge of the former's states in Devonshire during 1480-81. In addition, the Stonor collection includes letters by people connected to the 'legal profession': the kentishman *Thomas Mull*, who acted as legal adviser for Thomas Stonor II, and *Richard Page*, another kentishman, tenant of Sir William, who was **also** a London lawyer and a member of the Temple. Finally, the letters of three merchants, from the 'urban non-gentry', were selected: the Cely brothers, *Richard II* (d.1493) and *George* (d.1489), who ran the family wool business in London and Calais, and *Thomas Betson* (d. 1486), a merchant who **became** partner of Sir William Stonor in the wool-trade between 1475 and 1479, and was his agent in London and the continent (Calais, Bruges, etc.). All in all, these informants comprised the four intermediate orders in the social ranking of the period and, in the cases where there is enough biographical **evidence**, showed different grades of geographical and social mobility that could be correlated with particular social networks.

We **also** increased the three original variables of the original study to fifteen, in order to gain a complete outlook on how advanced each informant was as regards the adoption of the standard spelling practices or, on the contrary, the retention of archaic or dialectal spellings that were not related to incipient standard norms or did not, in the **long** run, find their way into standard English. The selection of variables has obviously **been** guided by the absence of a definitive standard norm in the late fifteenth century, which means, as Gómez Soliño has remarked, that we lack a workable graphemic **framework** for the analysis of medieval English. Therefore, for methodological **convenience**, spelling practices **have been** dissociated from spoken ones and are linked to specific lexical items (Gómez-Soliño 1997: 123; cf. **also**: Benskin 1992: 72). A complete list of the variables is given in table 3. **The** results of the analysis are **summarized** in table 4 and figure 6. As regards social rank, they show a fine gradation in the intermediate layers of late fifteenth century English society in connection with the adoption of innovative spellings. The professional lawyers —**Thomas Mull** and **Richard Page**— with an average score of 87% lead in the adoption of these forms, followed by the members of the upper gentry (60%) and then, with very similar average rates, by the 'urban non-gentry' (53%) and the 'lower gentry' (52%). It seems, therefore, that social rank is not the only factor that can be correlated with the diffusion of standard practices at the time: contact with the legal profession in London, where **some** of these prestigious varieties were forged, seems to **have been** of primary **importance** in the early diffusion of these forms.

Table 3: Variables used in Conde-Silvestre & Hemhndez-Campoy 2004

| Variable | Orthographic system | Variants |
|-----------|---------------------|---|
| (should) | standard | <i>shuld(e), should(e), shold(e)</i> |
| | non-standard | <i>schuld(e), schold(e), scholdd(e), schowld(e), xold(e)</i> |
| (which) | standard | <i>whiche(e), whyche(e)</i> |
| | non-standard | <i>wech(e), wech(e), wych(e), wich(e), qwhych(e), qwych(e), qwhich(e), qwich(e), qwech(e), qwech(e)</i> |
| (such) | standard | <i>such(e)</i> |
| | non-standard | <i>sych(e), soch(e), sich(e), soych(e), sech(e)</i> |
| (much) | standard | <i>moch(e), much(e)</i> |
| | non-standard | <i>mych(e), mysch(e), mech(e), mwch(e), mekyl, mesch(e), nekell</i> |
| (though) | standard | <i>though</i> |
| | non-standard | <i>thowe, thoghe, thowghe, thowthe, thow</i> |
| (these) | standard | <i>these, thies</i> |
| | non-standard | <i>thys(e), thees(e), thess(e), bes(e), lps(e)</i> |
| (self) | standard | <i>self(e)</i> |
| | non-standard | <i>selff(e), selfff(e), sylff(e), sylff(e), selu(e), selve(e), seiff</i> |
| (yet) | standard | <i>yet(e)</i> |
| | non-standard | <i>yit(e), yitt(e), yett(e), 3et(e), 3eyt(e)</i> |
| (them) | standard | <i>them, theym, thaym</i> |
| | non-standard | <i>hem(e), hym, thym, the, þem, þeym, þaym, þym</i> |
| (it) | standard | <i>it, yt</i> |
| | non-standard | <i>hit, hyt, hytt(e), itt, yt</i> |
| (will) | standard | <i>will(e), wyll(e)</i> |
| | non-standard | <i>woll(e), wall(e), wel(e), well(e), wul(e), wull(e), whyll(e), wholl(e), howll(e)</i> |
| (not) | standard | <i>not</i> |
| | non-standard | <i>nott(e), nat, nait(e), nonghte, nowt, nowgih(e), nogth, nowth(e)</i> |
| (her) | standard | <i>her(e), hir(e), hyr(e)</i> |
| | non-standard | <i>heer(e), herr(e), hur(e), har(e), yr(e)</i> |
| (any) | standard | <i>any, eny</i> |
| | non-standard | <i>ony, onny, honr</i> |
| (through) | standard | <i>through, thrugh, thurgh</i> |
| | non-standard | <i>thorow, thorowgh, thorrow, thoro, throw(e)</i> |

Table 4: Social rank and the diffusion of standard spellings (Conde-Silvestre & Hemhndez-Campoy 2004)

| Social Position | Informant | % Diffusion of Standard Spellings (individual) | | % Diffusion of Standard Spellings (group) | |
|------------------------------|---------------------|--|-------------|---|-------------|
| | | raw data | percentages | raw data | percentages |
| Upper Gentry | Sir William Stonor | #40/74 | 54% | #550/914 | 60% |
| | Sir John Paston II | #267/434 | 62% | | |
| | Sir John Paston III | #243/332 | 73% | | |
| Lower Gentry | Walter Elmes | #41/88 | 47% | #116/221 | 52% |
| | Richard Germyn | #75/133 | 56% | | |
| Professionals (legal) | Thomas Mull | #147/158 | 93% | #244/280 | 87% |
| | Richard Page | #97/122 | 80% | | |
| Urban Non-Gentry (merchants) | Thomas Betson | #170/212 | 80% | #335/629 | 53% |
| | George Cely | #43/189 | 23% | | |
| | Richard Cely II | #122/228 | 54% | | |

As regards social networks, the analysis also suggested that, as in present-day situations, the establishment of weak ties within loose-knit networks might have been another factor in promoting the adoption of prestigious spelling practices. In fact, most individuals with high geographical and social mobility, specially the members of the upper gentry, had also attained high scores; indeed, as knights they developed political careers at the Court, which made them travel along the country and abroad. For instance, John Paston II's political career started at the court of Edward IV between 1461-63, when he was knighted; it later took him to London, where he was MP between 1467-68; in this year he accompanied princess Margaret to Bruges on the occasion of her marriage and in the following decade he participated in different battles of the War of Roses, in Britain (Barnet in 1471), Calais, Bruges and Neuss (1472, 1473) (Davis 1971: Iviii-lix). This type of geographical mobility is also exhibited by John Paston III and Sir William Stonor and would have encouraged in the three cases the formation of weak ties within loose-hit networks that favoured the diffusion of innovations.

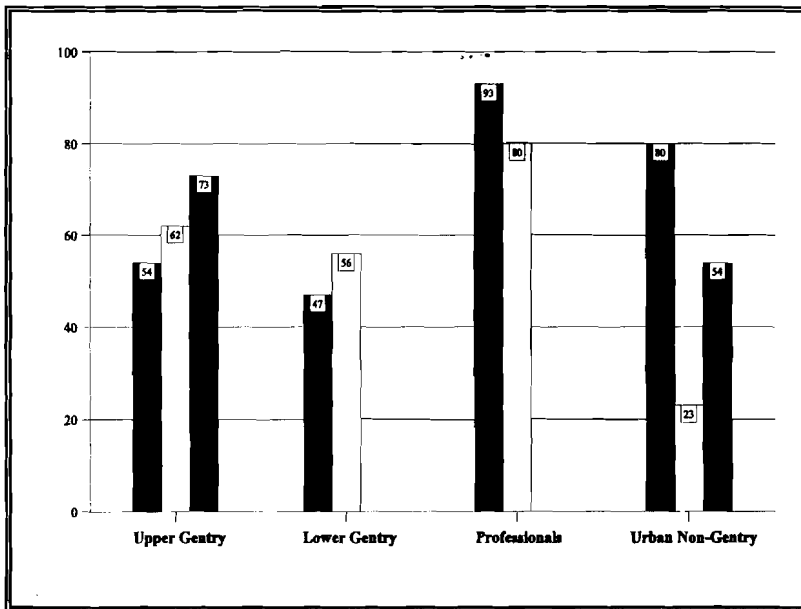


Figure 6: Diffusion of standard spellings in connection with social rank (Conde-Silvestre & Hernández-Campoy 2004)

The problem arose when the individual scores of the individuals who had the expected and necessary mobility are confronted with the higher rates of informants that belonged to lower orders of society, namely the merchants Richard Cely II (54%) and, especially, Thomas Betson (80%). We explained this apparent inconsistency in the light of James and Lesley Milroy's

principle (1992: 16-17) that the effects of social networks cannot be dissociated from social status and, particularly, from the constraints that certain **ranks** may **have** imposed over individuals by restricting their contact with members of other groups. This may lie behind the differences between the upper gentry and the London merchants who might **have** had a less restraining capacity to establish ample social contacts. In fact, Thomas Betson, who shows one of the highest scores (**80%**), only preceded by the two lawyers, was a merchant of the Staple, involved in the wool business, and must **have** often made the well-established route that led from the Cotswolds or Gloucestershire, where the wool was bought, to London, where it was stored and packed before being shipped to Calais; then he must **have** remained at this densely populated town paying the current tributes and trying to **sell** the wool (Power 1963: 152; Hanham 1975). This high degree of geographical mobility **would have** afforded him the opportunity of establishing a variety of weak **ties** within **loose-knit** networks. In addition, he was a **typical** 'social climber' who, by his involvement in the wool-business and his connections with members of the upper gentry, may **have been** aware of the **possibilities** of social promotion. Thomas Betson was son-in-law of Sir **William Stonor's** **first** wife, **Elizabeth** Ryche, the daughter of a well-off London mercer; he **became** partner of Sir William in the wool-trade business and was his representative in London, Calais and Bruges. The difference between Sir William's scores (54%) and Thomas Betson's (80%) may suggest that the social model to which the merchant conformed was less restricting than the confining, although higher, social role held by knights who, as Hanham suggests, "only sought to maintain a place in the [...] royal court or the household of great lords" (1985: 29). In addition, some of his letters reflect the character of an ambitious man who sometimes attempted to oust other members of the Stonor household from favour (Carpenter 1996: 56-57; cf. **also**: Power 1963: 156-158). These personal and social characteristics may **have** made him highly aware of prestigious **spellings** and driven him to use them profusely in **his** private correspondence.

III.2.3. The geolinguistic approach: gravity models and spatial diffusion

In this section we intend to round up this case study on the historical diffusion of linguistic **innovations** by looking at the process from a geolinguistic perspective, with the specific aim of **discerning** whether the geographical and demographic circumstances prevalent in late medieval England favoured hierarchical (gravity model) or epidemic diffusion (wave model). Parallels between the historical conditions in late medieval Europe and those of **modern** underdeveloped countries are often **drawn**. This procedure may underestimate the demographic and functional roles of urban nuclei in earlier periods, in view of the **existence** of demographic differences between a limited number of **relatively** large concentrations of people and a scattered, more or less even, distribution of population in the country. If this is so, the process of 'epidemic' or 'contagion' diffusion, traditionally represented by the wave model, may **have been** more widespread in earlier times than nowadays, so that linguistic innovations in late Middle English,

like the spellings connected to processes of standardisation, would **have** radiated from a **focal** area **and** reached physically nearby locations before those at greater **distances**. However, the few studies on the geographical diffusion of innovations in earlier periods of the history of English do not **wholly** support this perspective. Though intuitively, Samuels, for instance, had already stated in 1972 that even if "gradual changes best apply to **areas** where the population is distributed evenly [...] in the case of changes leading to a regional or national standard those natural expectations may not be fulfilled" (90).

Samuels' intuition has **been** supported by **some** research which attempts to **diversify** standardisation into various processes of 'supra-localisation', involving linguistic **features** of different regional and social **origins**. The perspectivism granted by the adoption of this vantage point allows **experts** to appreciate **diverse** changes taking place in particular regions and localities at any given time and eventually helps them to trace the spread of **certain features** from the area of **origin** to other ones (Nevalainen 2000: 329-330). For instance, Nevalainen and Raumolin-Brunberg **have** reconstructed the geographical diffusion from the late fifteenth to the seventeenth century of **some** morphological characteristics **from** the **north** of England. **Among** other variables, they track the spread southwards of the verbal form *are* (vs. *be*), the third **person** singular present indicative *-es* (vs. *-eth*) and the **relative** *the* which (vs. *which*) across a number of **texts** from East Anglia, London and the Court included in the Corpus of *Early* English Correspondence for the period 1460-1680. They conclude that *are* reached East Anglia earlier than London, whence it finally extended to the Court, following the expected pattern of regular wave-like diffusion (Nevalainen 2000: 348). However, Londoners **seem** to **have** accepted *-es* and the *which* earlier than East **Anglians** in a kind of 'dialect hopping process' that may be related to geographical factors like demography, **patterns** of migration, etc. (Nevalainen 2000: 347-350; Nevalainen & Raumolin-Brunberg 2000: 305-322). It seems that population geography may **have** played a role in the spatial diffusion of **English** linguistic innovations during the late Middle Ages and the early Renaissance, and that a hierarchical model of diffusion, **typical** of modern urban societies, might **have** coexisted in these periods with the expected wave-like model. As a **result**, the historical diffusion of linguistic innovations would **have been** not **only** a question of physical **distance** —like the wave-model proposes—, but **also**, like modern geolinguistics **assumes**, aspects like population size and its spatial distribution, as **well** as the demographic and functional roles of urban centres and their respective interaction may **have** had an **important** effect on the process.

In Conde-Silvestre & Hernández-Campoy (2002) we intended to reconstruct **some** of the geographical aspects that may **have** contributed to a hypothetical hierarchical diffusion of innovations in the late Middle English period. We believed that the reconstruction of demographic **evidence** from the late 14th century combined with the analysis of communications in late medieval England might **allow** us to establish a hypothetical **gravity** model, in the geolinguistic sense, and help to **speculate** on the **interurban** courses followed by linguistic **features** emanated from London —one of the most innovative **areas** in late Middle English— to

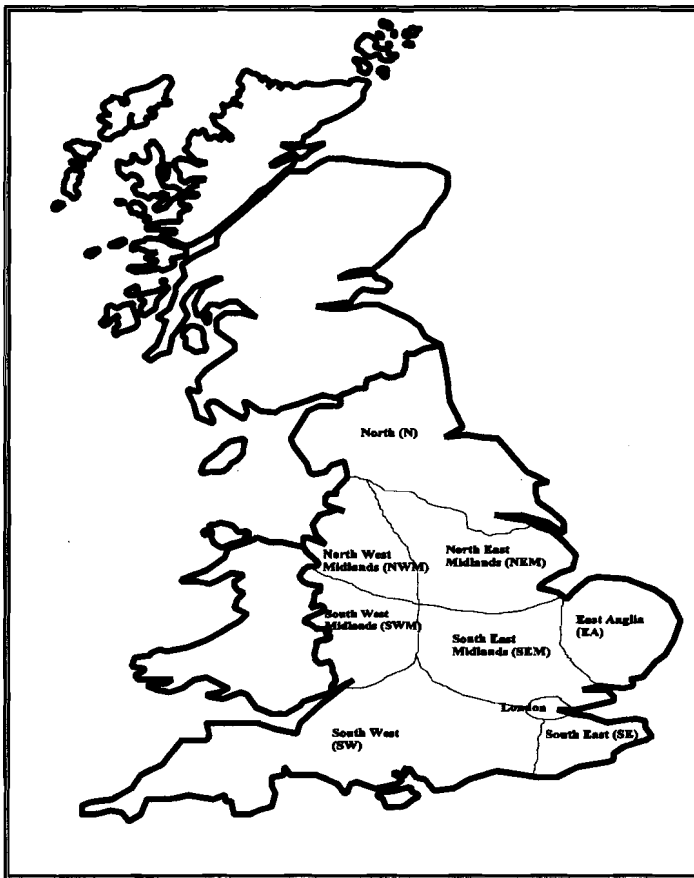
the rest of the country.

The process whereby late Middle English innovations were diffused from London is related to the **importance** of this city in the late Middle Ages. As was mentioned above, London **became** a centre for the exportation of **corn**, wool and textiles, within a large international network that spread into the Netherlands and the North Sea, to such an extent that commerce, manufactures and national wealth **started** to be concentrated in the area (Keene 2000: 99; see **also**: Beier & Finlay eds. 1985; Nevalainen & Raumolin-Brunberg 1989: 106). Additionally, the progressive centralization of the state and the "extensive authority of the Crown as the **source** of **justice**, peace and economic regulation" (Keene 2000: 99) contributed to the functional **relevance** of London throughout the rest of the country. Such prosperity is reflected in demography: population **raised** from around 35,000 people and a population density of 56.2 **sq/mile** in 1377 to nearly 80,000 in 1545 (86.7 **sq/mile**) when the metropolitan area of London had already annexed Westminster and Southwark-Lambeth (Russell 1948: 285). It is well-known that the increase in population was due to the attraction of a growing immigration from **all** over the country: people in temporal business, like political, legal or financial errands, and 'betterment migrants' in search of social advancement, were attracted to the metropolis. This population mixture created a fluid social structure that favoured the consolidation and diffusion of certain language changes.

Assuming that innovations from London may **have** diffused either evenly, in a wave-like epidemic fashion, or hierarchically, we explored the second possibility and adopted modern geolinguistic tenets to reconstruct the diffusion of innovations along a hierarchy of provincial centres. With this purpose, we firstly divided the geographical space of late medieval England into nine large cells or grids (see: map 1) which correspond to the traditional division of Middle English dialect **areas**: London, East **Anglia** (EA), the South-East (SE), the South-West (SW), the South-East Midlands (SEM), the North-East Midlands (NEM), the South-West Midlands (SWM), the **North-West** Midlands (NWM) and the North (**N**) (see: Fernández 1982: 590).

A second step in the process **was** the reconstruction of population data and physical distance between the different urban nuclei that may **have been** affected by linguistic innovations. It is obvious that exact figures on the distribution of medieval England's population are impossible to discern; nevertheless historical geographers **have** attempted to **estimate** the **rough** population of counties, towns and boroughs on the **evidence** afforded by the poll **tax returns**. For the purposes of our study we relied on the calculations made by Russell (1948), who assumed that 1000 payers of poll tax in one locality corresponded **roughly** to 1500-2000 inhabitants. Similarly, on account of the impossibility that the details of medieval England's physical geography are reconstructed, we considered modern road **distances** as a reliable measure of the distance between towns, provided that their construction **often** adapts itself to the landscape and to **earlier** routes. We **also** believed that calculation of the population **potential** index (PPI) for each town —**the** quantification of the extent of **influence** exerted by a given settlement on

another, expressed in **terms** directly proportional to its population size and inversely proportional to **the** distance — had to be modulated by considering, in addition to demography and distance, the function of towns and their location within the **communicative** network of late medieval England. These circumstances **might have contributed** to increase the flow of people to **some areas** and **have** favoured the population potential of **some** towns. Table 5 reflects the population potential index (PPI) of the largest towns within each of the **nine** dialect **areas** and the quantification of the following modulators: (a) sea-ports that enjoyed transport advantages (2); (b) towns situated in the course of extensive (**primary**) rivers and thereby in **internal** routes of **long-distance** trade (1.7); (c) urban nuclei situated by other (secondary) river courses **which** only **linked** places within nearby counties (1.5); (d) towns located on the main roads leading to London (1.6) or at **important** junctions in the road network of late medieval England (2); and (e) towns situated **near** medieval monasteries that attracted **pilgrims** (1.3).



Map 1: Middle English dialect areas

On the basis of these calculations, the towns **which could have behaved** as gravity centres **within** each of **the nine areas** were selected: Canterbury (SE), **Bury St. Edmunds**, Norwich, Cambridge and **Lynn** (EA), Plymouth, Exeter and **Salisbury** (SW), Oxford, **Coventry** and Leicester (SEM), **Lincoln** and Boston (NEM), Bnstol and Gloucester (SWM), **Chester** (NWM) and, **finally**, York and **Newcastle** (N).

*Table 5: Population potential index of towns in late medieval England
(Conde-Silvestre & Hernández-Campoy 2002)*

| Area | Town | Population | PPI | Sea-port | Primary river | Second. river | Main road | Pilg. route | Total |
|---------------------|-----------------|----------------|------|----------|---------------|---------------|-----------|-------------|-------|
| South-East | Canterbury | 3,861 | 4.2 | | | 1.5 | 1.6 | 1.3 | 18.48 |
| | Sandwich | c. 1,500-2,000 | 2.2 | 2 | | | 1.6 | | 7.92 |
| | Romney | c. 1,500-2,000 | 2 | 2 | | | | | 4 |
| East Anglia | Cambridge | 2,853 | 3.7 | | | 1.5 | 1.6 | | 11.47 |
| | Ely | 2,583 | 3.5 | | | 1.5 | | 1.3 | 9.80 |
| | Colchester | 4,432 | 5.1 | | | 1.5 | | | 7.65 |
| | Bury St Edmunds | 3,668 | 4.6 | | | | 1.6 | 1.3 | 13.34 |
| | Ipswich | 2,260 | 3.2 | 2 | | | | | 6.40 |
| | Norwich | 5,928 | 6.7 | | | 1.5 | 1.6 | | 30.77 |
| | Lynn | 4,691 | 5.3 | 2 | | | | | 10.66 |
| Yarmouth | 2,912 | 3.7 | 2 | | | | | 7.40 | |
| South West | Reading | c. 1,500-2,000 | 2 | | 1.7 | | 1.6 | | 6.60 |
| | Exeter | 2,340 | 2.7 | 2 | | | 1.6 | | 9.72 |
| | Plymouth | 7,256 | 7.4 | 2 | | | 1.6 | | 26.64 |
| | Southampton | 1,728 | 2.3 | 2 | | | (1.6) | | 8.28 |
| | Winchester | 2,160 | 2.7 | | | | 1.6 | | 4.32 |
| | Wells | 1,352 | 1.7 | | | | | | 1.70 |
| South East Midlands | Salisbury | 4,839 | 5.2 | | | 1.5 | 1.6 | | 16.12 |
| | St. Albans | c. 1,500-2,000 | 2 | | | | 1.6 | 1.3 | 5.80 |
| | Leicester | 3,512 | 3.7 | | | 1.5 | 1.6 | | 11.47 |
| | Northampton | 2,216 | 2.7 | | | 1.5 | 1.6 | | 8.37 |
| | Oxford | 3,436 | 3.8 | | 1.7 | | 1.6 | | 12.54 |
| North East Midlands | Coventry | 7,226 | 4.6 | | | | 2 | | 9.20 |
| | Derby | 1,569 | 2 | | | 1.5 | 1.6 | | 6.2 |
| | Lincoln | 5,354 | 5.8 | | 1.7 | | 1.6 | | 19.14 |
| | Boston | 4,307 | 4.7 | 2 | | | | | 9.40 |
| | Stamford | 1,827 | 2.2 | | | 1.5 | 1.6 | | 6.82 |
| | Nottingham | 2,170 | 2.7 | | 1.7 | | 1.6 | | 8.91 |
| South West Midlands | Newark | 1,767 | 2.5 | | | 1.5 | 1.6 | | 7.75 |
| | Shrewsbury | 3,123 | 3.4 | | 1.7 | | | | 5.78 |
| | Ludlow | 1,758 | 2.3 | | | 1.5 | | | 3.45 |
| | Bristol | 9,518 | 9.8 | 2 | | | 1.6 | | 35.28 |
| | Gloucester | 3,358 | 4 | | 1.7 | | 2 | | 14.30 |
| | Hereford | 2,854 | 3.4 | | | 1.5 | 1.6 | | 10.54 |
| North West Midlands | Worcester | 2,336 | 3 | | 1.7 | | 1.6 | | 9.90 |
| | Lichfield | 1,536 | 1.7 | | | | 1.6 | | 2.72 |
| | Chester | c. 1,500-2,000 | 1.8 | 2 | | | (1.6) | | 3.60 |
| North | Newcastle | 3,970 | 4.2 | 2 | | | (1.6) | | 15.12 |
| | York | 10,872 | 11.3 | | 1.7 | | 1.6 | | 37.29 |
| | Beverley | 3,994 | 4.8 | | | 1.5 | | | 7.20 |
| | Scarborough | c. 3,500 | 4.1 | 2 | | | | | 8.20 |
| | Kingston | 2,336 | 3.3 | 2 | | | | | 6.60 |

Table 6: Phonological and morphological features considered for the calculation of ME linguistic similarity (Conde-Silvestre & Hernández-Campoy 2002)

| | London | SE | EA | SW | SEM | NEM | SWM | NWM | N |
|--------------|----------------|---------------|------------------------------|--------------|----------------|------------------------------|------------------------------|------------------------------|--------------|
| OE [eo] | [e:] | [e:] | [e:] | [o:] | [e:] | [e:] | [o:] | [o:] | [e:] |
| OE [æ] | [a] | [e] | [a] | [e, a] | [a] | [e, a] | [e, a] | [e] | [a] |
| OE [æ:] | [ɛ:] | [e:] | [a:] | [ɛ:] | [ɛ:, e:] | [ɛ:, e:] | [ɛ:, e:] | [ɛ:, e:] | [ɛ:, e:] |
| OE[a+nasal] | [o:] | [o:] | [o:] | [o:] | [o:] | [ɔ:] | [a:] | [a:] | [a:] |
| Initial [f] | [v] | [v] | [f] | [v] | [f] | [f] | [f, v] | [f] | [f] |
| Feminine pp | <i>sche</i> | <i>he, ho</i> | <i>sche</i> | <i>ho</i> | <i>sche</i> | <i>scho</i> | <i>heo, ho</i> | <i>heo, ho</i> | <i>scho</i> |
| Plural pp | <i>th-, h-</i> | <i>h-</i> | <i>th-, h-</i> | <i>h-</i> | <i>th-, h-</i> | <i>th-</i> | <i>h-</i> | <i>h-</i> | <i>th-</i> |
| Present part | <i>-inge</i> | <i>-inge</i> | <i>-inge</i> <i>-ende</i> | <i>-inge</i> | <i>-inge</i> | <i>-inge</i> <i>-ende</i> | <i>-inge</i> <i>-ende</i> | <i>-inge</i> <i>-ende</i> | <i>-ande</i> |
| Present pl | <i>-en, -e</i> | <i>-ep</i> | <i>-en</i> | <i>-ep</i> | <i>-en</i> | <i>-en, -es</i> | <i>-ep</i> | <i>-en</i> | <i>-es</i> |
| 3 present sg | <i>-ep</i> | <i>-ep</i> | <i>-ep</i> | <i>-ep</i> | <i>-ep</i> | <i>-es</i> | <i>-ep</i> | <i>-es</i> | <i>-es</i> |

Table 7: Quantification of linguistic similarity in ME (Conde-Silvestre & Hernández-Campoy 2002)

| Dialect Area | Main Urban Centres | Linguistic similarity |
|---------------------|------------------------|-----------------------|
| Middlessex | <i>London</i> | 10 |
| South East | <i>Canterbury</i> | 5 |
| East Anglia | <i>Cambridge</i> | 7.5 |
| | <i>Norwich</i> | 7.5 |
| | <i>Bury St Edmunds</i> | 7.5 |
| | <i>King's Lynn</i> | 7.5 |
| South West | <i>Exeter</i> | 5.5 |
| | <i>Plymouth</i> | 5.5 |
| | <i>Salisbury</i> | 5.5 |
| South East Midlands | <i>Oxford</i> | 8 |
| | <i>Coventry</i> | 8 |
| | <i>Leicester</i> | 8 |
| North East Midlands | <i>Lincoln</i> | 5 |
| | <i>Boston</i> | 5 |
| South West Midlands | <i>Bristol</i> | 3 |
| | <i>Gloucester</i> | 3 |
| North West Midlands | <i>Chester</i> | 2 |
| North | <i>York</i> | 3 |
| | <i>Newcastle</i> | 3 |

Another **important** factor that we contemplated was the degree of linguistic similarity. Indeed, a linguistic system can **have** either a **restraining (slowing/rejecting)** or stimulating (accelerating) effect on the adoption of a given innovation, **because** the higher or **lower** compatibility of the innovation in question with the characteristics of the **variety** receiving it **will** make the **whole** process easier or **more** complicated. In order to **quantify** the degree of similarity

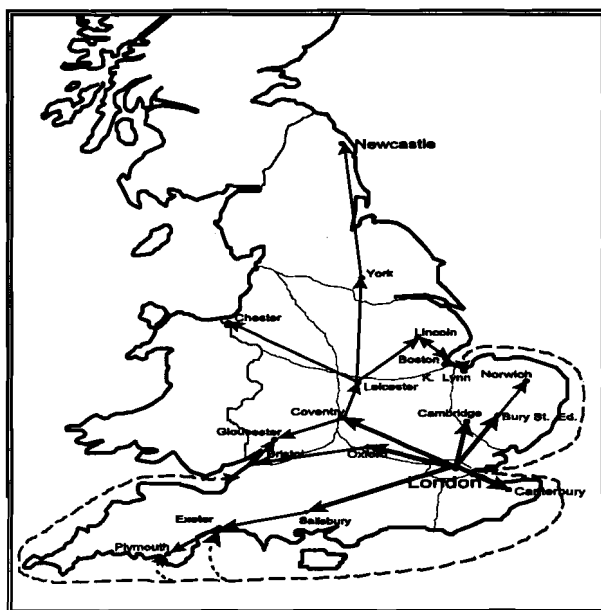
between the dialect **areas** ten phonological and morphological characteristics of late ME dialects were selected (see: table 6) and a score of 1, 0.5 or 0 was given to each on account of the **presence** or absence of these distinctive features, so that a numerical value ranging from 0 to 10 can conventionally be assumed to express the degree of linguistic similarity (see table 7).

Calculations of the influence potential exerted and received by every single urban centre are displayed in table 8 in **percentages**.⁶ These figures allowed us to speculate on how linguistic innovations from London might **have** spatially diffused throughout the country. It is **feasible** to construct a pattern which combines the wave-like model with hierarchical diffusion (see: map 2). In this sense, linguistic **features** would **have** spread more or less evenly to the towns of Cambridge (EA), Oxford (SEM), Canterbury (SE), **Bury** St Edmunds (EA) and Salisbury (SW); although it is possible to claim, on account of the *population potential* index of the different localities **in** each of these **areas**, that these gravity centres would **have** received innovations earlier than other places, **despite** being nearer to London. **The** process of wave-like diffusion would possibly **have been** prevalent in the case of the ports of the Southwest, so that innovations from London must **have** reached Southampton (not included among the **main** gravity centres), Exeter and Plymouth successively. Nevertheless, a process of hierarchical diffusion may **have** led innovations from London to Coventry (SEM). Similarly, **Lynn** (EA) may **have been** affected before Norwich in view of the former's higher potential for influencing (4.9%) and being influenced (5.9%); the reason was possibly the connection by sea between the ports of Lynn and London. **The** same hierarchical pattern may **have** applied to Bnston (SWM): as a port-town directly linked to London by sea, innovations from this city may **have** reached Bnston before other places in the Southwest and the South-West Midlands.

The high potential for influencing of **some** of these towns, particularly Coventry (9.4%), Lynn (4.9%) and Bristol (3.2%), makes it plausible that innovations **from** London rebounded from them to neighbouring towns, in a new wave-like pattern of diffusion. Connection by sea may **have** favoured the diffusion of innovations from Lynn to Boston (NEM), and roads may **have** facilitated their movement from Bristol to the near town of Gloucester (SWM) and from Coventry to Leicester (SEM). It is possible that innovations reached Norwich (EA) either from the port of Lynn, or directly from London **and/or** Bury St. Edmunds, although in view of the road connection between the last **three** towns, and the **difficulties** for transportation in the Fens, we prefer to speculate on the second possibility. Finally, it is harder to trace the routes that linguistic innovations from London followed in their diffusion through the **northern** counties. While it is clear that Newcastle (**N**) and Chester (NWM) would **have been** the last places to receive them —if they did at **all**—, the low potential for influencing and being influenced of towns like Lincoln (NEM) (2.8% and 4%) and York (**N**) (1.1% and 5%), makes **it** likely that the former received London innovations from the near port of Boston or from Leicester and that, in a **wave-like** manner, they **finally** reached York either from Coventry or from Lincoln.

Table 8: Influence potential exerted/received by urban centres in late medieval England
(Conde-Silvestre & Hernández-Campoy 2002)

| | Potential for Influencing | | Potential for being Influenced | |
|----|---------------------------|-------|--------------------------------|------|
| 1 | London | 51.2% | Oxford | 8% |
| 2 | Coventry | 9.4% | Cambridge | 7.7% |
| 3 | Lynn | 4.9% | Coventry | 7.6% |
| 4 | Norwich | 4% | Leicester | 7.2% |
| 5 | Leicester | 4.4% | Canterbury | 6.7% |
| 6 | Bristol | 3.2% | Bury St. Edmunds | 6.1% |
| 7 | Oxford | 3.2% | Lynn | 5.9% |
| 8 | Boston | 3.1% | Bristol | 5.7% |
| 9 | Bury St. Edmunds | 3% | Boston | 5.3% |
| 10 | Lincoln | 2.8% | York | 5% |
| 11 | Cambridge | 2.7% | Norwich | 4.7% |
| 12 | Salisbury | 1.8% | Salisbury | 4.3% |
| 13 | Plymouth | 1.5% | Gloucester | 4.1% |
| 14 | York | 1.1% | Lincoln | 4% |
| 15 | Gloucester | 0.9% | London | 3.7% |
| 16 | Newcastle | 0.84% | Exeter | 1.6% |
| 17 | Canterbury | 0.83% | Plymouth | 1.3% |
| 18 | Exeter | 0.5% | Newcastle | 1.2% |
| 19 | Chester | 0.05% | Chester | 0.7% |



Map 2: Patterns of diffusion from London (Conde-Silvestre & Hernández-Campoy 2002)

IV. CONCLUSION

All in all, we **have been** able to reconstruct **some** possible patterns of diffusion of a key linguistic process in the history of English, in **connection** with the basic dimensions that **have derived** from research on present-day innovations and changes in progress. Firstly, as regards time, we **have** managed to trace **some** chronological progress in the adoption of incipient standard spellings by correspondents from different generations of the Paston family, who exchanged letters in the course of the **fifteenth** century (from the 1420s to the 1470s). Although we were unable to reconstruct any S patterns in the implementation of these changes—**due** to the scarcity of **data**—it was possible to demonstrate that the diffusion in time of incipient standard spellings is connected with style, and can be inferred from it: increase **in** the use of early standard variants in the course of time is parallel to their extension from formal to informal documents, as expected in the case of 'changes from above'.

Secondly, changes in the past must **also** be **seen** from the social perspective, just as innovations in progress are studied nowadays. In this respect we **have been** able to extend modern sociolinguistic tenets to the linguistic situation of the late fifteenth century by correlating the incipient standard practices with the social status of authors of letters from the Paston, Stonor and Cely families. As a typical 'change from above', standardisation clearly correlates with social status, and members of the upper-middle layers of society—the 'upper **gentry**'—were prominent in **the** use of the spellings that would **become** standard practices. Nevertheless, social **rank** is not the only factor that can be correlated with standardisation in **writing** at that time: contact with the legal profession in London, where the standard variants were most widely used, was of **primary importance** in the early diffusion of these forms. As regards social networks, we **have** noticed that, as in contemporary situations, the establishment of **weak ties** within **loose-knit** networks might **have been** another key factor in promoting the adoption of prestigious spelling practices, since most individuals with high geographical and social mobility **have also** attained high scores—**especially some** members of the 'upper gentry' who travelled extensively throughout the country and abroad and spent long periods of time in densely populated towns, like London or Calais. **Despite** these general circumstances, we **have also** noticed that, in accordance with recent proposals (Milroy & Milroy 1992: 16-17), the effects of social networks **cannot** be dissociated from social status and, particularly, from the constraints that **certain ranks** may **have** imposed over individuals by restricting their contact with members of other groups. This may **have been** the case of the 'upper gentry' whose representatives show a relatively high rate of standardisation, but not as high as that attained by **some** London merchants who may **have had** a less restraining capacity to establish extensive social contacts.

Thirdly, we **have** looked at the historical diffusion of innovations from a geolinguistic perspective and **have** contemplated the possibility that linguistic processes in late Middle English did not only diffuse in an epidemic, wave-like manner, but that the **growth** and development of towns may **have** favoured a process of hierarchical diffusion. In this process demography and

communication networks played a vital role. Following these premises, we **have** considered the population of late medieval England and **have** attempted to **reconstruct** the network of communications that could **have** facilitated the spread of innovations (like incipient standard practices) from London —the most innovative **area** in linguistic terms— to other **parts** of the country. The application of geolinguistic models to late Middle English results —**given** the lack of data — **in** a speculative model that combines epidemic and hierarchical diffusion and points to the **importance** of towns like Coventry (SEM), **Bristol** (SWM) and **Lynn** (EA), **in** addition to London, **in** the linguistic panorama of the period. Finally, we expect to **have** shown that it is **possible** to **deal** with historically attested processes in their social **and** geographical complexities, **and** that the application of sociolinguistic and geolinguistic methods to the past may yield **fruitful** conclusions.

NOTES:

1. The distinction between innovation and change is **crucial** and based on the concept of **diffusion** itself. The former refers to **spontaneous** and individual speech variation which may circulate and progressively reach a **larger** number of **speakers**. Innovations turn into changes in progress when they are **diffused** and the variants affected reach new adopters, thus acquiring **some** kind of social significance **within** the community (J. Milroy & L. Milroy 1985: 345; J. Milroy 1992: 201-202).

2. On **geolinguistics**, its **theoretical** tenets and applications, see **also**: Larmouth (1981), Trudgill (1983, 1986), Gerritsen (1988), Hemández-Campoy (1999, 2003a, 2003b, 2004), Britain (2002) and Wolfram & Schilling-Estes (2003), among **others**.

3. **Linguists have also** found **instances** of epidemic **diffusion** of innovations and changes in progress —see Trudgill's research on the spread of **features** from London to East **Anglia** (1986) — as **well** as contra-hierarchical models at work **in** certain speech communities, like **Oklahoma** where **Bailey et al.** (1993: 371-373) noticed that **some** innovations spread from **rural** to urban communities, which represents the **reaffirmation** and **revitalization** of traditional norms. Finally, Horvath & Horvath **have** detected a **pattern** which combines **contagion** and hierarchy in the case of **some features** of **Australian** English which "gain a **foothold** in both town and country in one particular region before **diffusing** to other regions" (1997; quoted from **Britain** 2002: 625).

4. See, **among** others: Benskin 1992; Bumley 1989; Fisher 1977, 1996; Gómez-Solís 1981; 1985; 1986; 1997; Heikkonen 1996; **Raumolin-Brunberg** and Nevalainen 1990; Rissanen 2000; **Rodríguez** 1999; Samuels 1981 and Taaivainen 2000.

5. Tracing the extension of early standard practices at this early stage is a difficult **task** and late Middle English **private** documents should not be expected to show a high degree of **internal** graphemic regularity. One basic reason for this situation is that progress towards linguistic uniformity **proceeds through** the gradual exclusion of variants along the different sections of a **pyramidal** representation, where a number of supraregional and modified varieties are situated between the regional dialects placed at the **bottom** and the standard norms at the top (Gómez-Solís 1997: 129-130). Thus, the adoption of this or any other norm **does not imply** the total abandonment of the local or regional varieties; on the contrary, it **very often** led to "... a mixed dialect in which the **writer replace[d]** his most conspicuous local forms [...] with forms from other local varieties, resulting in a **colourless regional language**" (Samuels 1981: 43; cf. **also**: Raumolin-Brunberg and Nevalainen 1990: 124).

6. The formula that we have applied is commonly used in geolinguistics and considers that the mutual influence of two towns (I_{xy}) is directly proportional to the product of the population sizes (P_x and P_y) and inversely proportional to the square of the distance between them (D_{xy}^2). It also contemplates the effects of linguistic similarity (S) and adds a coda to account for the fact that the total index of every single urban centre has to be defined as the addition of the interaction potential indexes with all towns under scrutiny.

Linguistic Influence Equation

$$I_{xy} = S \cdot \frac{P_x \cdot P_y}{(D_{xy})^2} \cdot \frac{P_x}{P_x + P_y}$$

REFERENCES

- Abler, R., Adams, J.S. & Gould, P. (1971). *Spatial Organization: The Geographer's View of the World*. Englewood Cliffs, N.J.: Prentice Hall.
- Aitchison, Jean (1991). *Language Change. Progress or Decay?*. Cambridge: Cambridge University Press (2nd edition).
- Bailey, Ch.J. (1973). *Variation and Linguistic Theory*. Arlington: CAL.
- Bailey, G., Wikle, T., Tillery, J. & Sand, L. (1993). Some patterns of linguistic diffusion. *Language Variation and Change*, 5: 359-390.
- Beier, A.L. & Finlay, R. (Eds.) (1986). *London 1500-1700: The Making of the Metropolis*. London: Longman.
- Benskin, Michael (1992). Some new perspectives on the origins of standard written English. In: J.A. van Leuvensteijn & J.B. Berns (Eds.), *Dialect and Standard Language in the English, Dutch, German and Norwegian Language Areas*. Amsterdam: North Holland, pp. 71-105.
- Benskin, M. & Samuels, M.L. (Eds.) (1981). *So Many People, Longages and Tonga. Philological Essays in Scots and Medieval English Presented to A. McIntosh*. Edinburgh: Middle English Dialect Project.
- Boberg, C. (2000). Geolinguistic Diffusion and the U.S.-Canada Border. *Language Variation and Change* 12: 1-24.
- Britain, David (1991). *Dialect and Space: A Geolinguistic Analysis of Speech Variables in the Fens*. Unpublished Ph.D. Dissertation. Colchester: University of Essex.

- Britain, David (2002). Space and Spatial Diffusion. In: J. Chambers, P. Trudgill & N. Schilling-Estes (Eds.), *The Handbook of Language Variation and Change*. Oxford: Blackwell, pp. 603-637.
- Burnley, D. (1989). Sources of standardisation in later Middle English. *Tennessee Studies in Literature. Standardizing English. Essays in the History of Language Change* 31: 23-41.
- Callary, R.E. (1975). Phonological Change and the Development of an Urban Dialect in Illinois. *Language in Society* 4: 155-169.
- Carpenter, Christine (Ed.) (1996). *Kingsford's Stonor Letters and Papers, 1290-1483*. Cambridge: Cambridge University Press.
- Chambers, Jack K. (1982). Geolinguistics of a Variable Rule. *Discussion Papers in Geolinguistics*, 5: 1-17.
- Chambers, Jack K. & Trudgill, Peter J. (1980). *Dialectology*. Cambridge: Cambridge University Press.
- Chen, Matthew & Wang, William S-Y. (1975). Sound Change: Actuation and Implementation. *Language* 51: 255-281.
- Christaller, W. (1966). *Central Places in Southern Germany*. New York, London: Prentice-Hall.
- Clark, C. (1967). *Population Growth and Land Use*. London: MacMillan.
- Clark, W. (1982). Recent Research on Migration and Mobility. A Review and Interpretation. *Progress in Planning*, 18, pp. 1-56.
- Conde-Silvestre, Juan Camilo & Hernández-Campoy, Juan Manuel (2002). Modern Geolinguistic Tenets and the Diffusion of Linguistic Innovations in Late Middle English. *Studia Anglica Posnaniensia*, 38: 147-177.
- Conde-Silvestre, Juan Camilo & Hernández-Campoy, Juan Manuel (2004). A Sociolinguistic Approach to the Diffusion of Chancery Written Practices in Late Fifteenth Century Private Correspondence. *Neophilologische Mitteilungen* 105, pp. 133-152.
- Davis, Norman O. (Ed.) (1971). *Paston Letters and Papers of the Fifteenth Century* (2 vols.). Oxford: Clarendon.
- Fernández, Francisco (1982). *Historia de la lengua inglesa*. Madrid: Gredos.
- Fisher, John H. (1977). Chancery English and the emergence of standard written English. *Speculum* 50: 870-899.

- Fisher, John H. (1996). *The Emergence of Standard English*. Lexington: The University Press of Kentucky.
- Gerritsen, Marinel (1988). Sociolinguistic Developments as a Diffusion Process. In: U. Ammon, N. Dittmar & K.L. Mattheier (Eds.), *Sociolinguistics. An International Handbook of the Science of Language and Society*. Berlin: Mouton de Gruyter. vol. 2: 1574-1591.
- Giles, Howard (1973). Accent Mobility: A Model and Some Data. *Anthropological Linguistics* 15, pp. 87-105.
- Giles, H. Taylor, D. & Bourhis, R. (1973). Towards a Theory of Interpersonal Accommodation through Speech: Some Canadian Data. *Language in Society* 2, pp. 177-192.
- Gómez-Soliño, José (1981). Thomas Wolsey, Thomas More y la lengua inglesa estándar de su época. *Revista Canaria de Estudios Ingleses* 3: 74-84.
- Gómez-Soliño, José (1985). William Caxton y la estandarización de la lengua inglesa en el siglo XV. *Revista Canaria de Estudios Ingleses* 10: 95-118.
- Gómez-Soliño, José (1986). La normalización lingüística en la época de Enrique VIII. In: S. Onega (Ed.), *Estudios literarios ingleses. Renacimiento y barroco*. Madrid: Cátedra, pp. 19-44.
- Gómez-Soliño, José (1997). Pastons, Celys and the standard language in the late fifteenth century. In: M. Giménez Bon & V. Olsen (Eds.), *Proceedings of the LXth International Conference of the Spanish Society for Medieval English Language and Literature*. Vitoria-Gasteiz: Universidad del País Vasco, pp. 117-139.
- Hägerstrand, Torsten (1952). The Propagation of Innovation Waves. *Lund Studies in Geography*, Series B: *Human Geography* 4. Lund: Gleerup.
- Hanham, Alison (Ed.) (1975). *The Cely Letters, 1472-1488*. London: Oxford University Press.
- Haugen, Einar (1966). Dialect, language and nation. In: J.B. Pride & J. Holmes (Eds.), *Sociolinguistics*. Harmondsworth: Penguin, pp. 97-112.
- Heikkonen, Kirsi (1996). Regional variation in standardization. A case study of Henry V's Signet Office. In: Nevalainen & Raumolin-Brunberg (Eds.), 1996, pp. 111-127.
- Hernández-Campoy, Juan Manuel (1999). *Geolingüística. Modelos de interpretación geográfica para lingüistas*. Murcia: Universidad de Murcia.
- Hernández Campoy, Juan Manuel (2003a). Exposure to Contact and the Geographical Adoption of
- O Servicio de Publicaciones. Universidad de Murcia. All rights reserved. *IJES*, vol. 5 (1), 2005, pp. 101-134

Standard Features: Two Complementary Approaches. *Language in Society* 32 (3): 227-255.

Hernández-Campoy, Juan Manuel (2003b). **Geolinguistic** Patterns of Diffusion in a Spanish Region: The Case of the **Dialect** of Murcia. *Estudios de Sociolingüística* 4 (2): 613-652.

Hernández-Campoy, Juan Manuel. (2004). Requisitos Teórico-metodológicos para el Estudio Geolingüístico del Dialecto Murciano. *Tonos Digital* 8 (www.tonosdigital.com): 273-331.

Hernández-Campoy, Juan Manuel & Conde-Silvestre, Juan Camilo. (1999). The Social Diffusion of Linguistic Innovations in Fifteenth Century England: Chancery **Spellings** in **Private** Correspondence. *Cuadernos de Filología Inglesa* 8: 251-274.

Hope, Jonathan (2000). **Rats**, bats, sparrows and dogs: **Biology**, **linguistics** and the nature of Standard English. In: L. Wright (M.) 2000, pp. 49-56.

Horvath, **Barbara** & Horvath, Ronald (1997). The **Geolinguistics** of a Sound Change in Progress: **/I Vocalization** in Australia. *Paper presented at the NWAWE 25 Conference. Special Issue of University of Pennsylvania Working Papers in Linguistics* 4: 109-124.

Jones, H. (1990). *Population Geography*. London: PCP.

Keene, Derek (2000). Metropolitan values: Migration, mobility and cultural norms, London 1100-1700. In: L. Wright (Ed.), 2000, pp. 93-114.

Labov, William (1972). *Sociolinguistic Patterns*. Philadelphia: University of Pennsylvania Press.

Labov, William (1994). *Principles of Linguistic Change. Vol. 1: Internal Factors*. Oxford: Blackwell.

Labov, William (2001). *Principles of Linguistic Change. Vol. 2: Social Factors*. Oxford: Blackwell.

Larmouth, Donald (1981). Gravity Models, Wave Theory and Low-Structure Regions. In: Henry J. Warkentyne (Ed.), *Methods IV. Papers from the 4th International Conference on Methods in Dialectology*. Victoria: University of Victoria Press, pp. 199-219.

Leith, Dick (1997). *A Social History of English*. London: Routledge (2nd edition).

Milroy, James (1992). *Linguistic Variation and Change. On the Historical Sociolinguistics of English*. Oxford: Blackwell.

Milroy, James & Milroy, **Lesley** (1985). Linguistic change, social network and speaker innovation. *Journal of Linguistics* 21: 339-384.

- Milroy, Lesley (1980). *Language and Social Networks*. Oxford: Blackwell (2nd edition: 1987).
- Milroy, Lesley & Milroy, James (1992). Social network and social class: Toward an integrated sociolinguistic model. *Language in Society* 21: 1-26.
- Nevalainen, Terttu (1996). Social Stratification. In: T. Nevalainen & H. Raumolin-Brunberg (Eds.), pp. 57-76.
- Nevalainen, Terttu (2000). Process of supralocalisation and the rise of standard English in the Early Modern period. In: R. Bermúdez-Otero *et al.* (Eds.), *Generative Theory and Corpus Studies. A Dialogue from the 10th ICEHL*. Berlín: Mouton de Gruyter, pp. 329-371.
- Nevalainen, Terttu & Raumolin-Brunberg, Helena (1989). A corpus of Early Modern Standard English in a socio-historical perspective. *Neuphilologische Mitteilungen* 90: 67-110.
- Nevalainen, Terttu & Raumolin-Brunberg, Helena (1994). Social Stratification in Tudor English?. In: D. Britton (Eds.), *English Historical Linguistics 1994. Papers from the 8th International Conference on English Historical Linguistics. Edinburgh 1994*. Amsterdam & Philadelphia: John Benjamins, pp. 303-326.
- Nevalainen, Terttu & Raumolin-Brunberg, Helena (2000). The changing role of London on the linguistic map of Tudor and Stuart English. In: D. Kastovsky & A. Mettinger (Eds.), *The History of English in a Social Context. Essays in Historical Sociolinguistics*. Berlín: Mouton de Gruyter, pp. 280-337.
- Nevalainen, Terttu & Raumolin-Brunberg, Helena (Eds.) (1996). *Sociolinguistics and Language History. Studies based on the Corpus of Early English Correspondence*. Amsterdam: Rodopi.
- Nevalainen, Terttu & Raumolin-Brunberg, Helena (2003). *Historical Sociolinguistics. Language Change in Tudor and Stuart England*. London: Pearson Education.
- Power, E. (1963). Thomas Betson. A Merchant of the Staple in the Fifteenth Century. *Medieval People*. London: Methuen, pp. 125-159.
- Raumolin-Brunberg, Helena (1996). Historical Sociolinguistics. In: T. Nevalainen & H. Raumolin-Brunberg (Eds.), 1996, pp. 11-37.
- Raumolin-Brunberg, Helena & Nevalainen, Terttu (1990). Dialectal features in a corpus of Early Standard English?. In: G. Caie *et al.* (Eds.), *Proceedings from the Fourth Nordic Conference for English Studies*. Department of English, University of Copenhagen, pp. 119-131.
- Rissanen, Matti (2000). Standardisation and the language of early statutes. In: L. Wright (Ed.), 2000 pp.

117-130.

Rodriguez, **Gudelia** (1999). **Spelling** Variables and Conformity to the Standard in the Late Fifteenth Century. In: A. **Bringas López** *et al.* (Eds.), '*Woonderous Ænglisc*'. *SELIM Studies in Medieval English Language*. Vigo: Universidade de Vigo, Servicio de Publicacións, pp. 145-199.

Rogers, E.M. (1985). *Diffusion of Innovations*. Nueva York: MacMillan.

Romaine, **Suzanne** (1982). *Socio-Historical Linguistics. Its Status and Methodology*. Cambridge: Cambridge University Press.

Russell, John C. (1948). *British Medieval Population*. Albuquerque: The University of New Mexico Press.

Samuels, M.L. (1963). **Some** applications of Middle English dialectology. *English Studies* 44: 81-94.

Samuels, M.L. (1972). *Linguistic Evolution with Special Reference to English*. Cambridge: Cambridge University Press.

Samuels, M.L. (1981). **Spelling** and dialect in the late and post-middle English periods. In: M. Benskin & M.L. Samuels (Eds.), pp. 43-54.

Sandved, **Arthur O.** (1981). Prolegomena to a renewed study of the **rise** of Standard English. In: M. Benskin & M.L. Samuels (Eds.), pp. 31-42.

Taavitsainen, **Irma** (2000). Scientific language and **spelling** standardisation. In: L. **Wright** (Ed.), pp. 131-154.

Trudgill, Peter J. (1974). Linguistic Change and **Difussion**: Description and Explanation in Sociolinguistic Dialect Geography. *Language in Society*, 3: 215-246.

Trudgill, Peter J. (1983). *On Dialect*. Oxford: Blackwell.

Trudgill, Peter J. (1986). *Dialects in Contact*. Oxford: Blackwell.

Trudgill, Peter J. (1992). Dialect Contact, Dialectology and **Sociolinguistics**. In: K. **Bolton** & H. Kwok (Eds.), *Sociolinguistics Today: International Perspectives*. London: Routledge, pp. 71-79.

Trudgill, Peter J. (1995). *Sociolinguistics: An Introduction to Language and Society*. London: Penguin (1st Edition, 1974; Revised Edition, 1995).

Wolfram, Walt & Schilling-Estes, Natalie (2003). Dialectology and Linguistic Diffusion. In: B. Joseph

- & R. Janda (Eds.), *The Handbook of Historical Linguistics*. Oxford: Blackwell, pp. 713-735.
- Wright, Laura (1996). **About** the evolution of Standard English. In: E. Tyler & M. Jane Toswell (Eds.), *Studies in English Language and Literature. 'Doubt Wisely'. Papers in Honour of E.G. Stanley*. London: Routledge, pp. 99-115.
- Wright, Laura (2000). **Introduction**. In: L. Wright (Ed.), 2000 pp. 1-8.
- Wright, Laura (Ed.) (2000). *The Development of Standard English, 1300-1800. Theories, Descriptions, Conflicts*. Cambridge: Cambridge University Press.
- Wyld, Henry Cecil (1927). *A Short History of English*. London: John Murray.