

# Contrastive Analysis, *Tertium Comparationis* and Corpora

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## *Abstract*

This paper highlights the importance of a common ground, or *tertium comparationis*, in order to establish unbiased cross-linguistic equivalence in contrastive studies. Following an outline of the two main types of corpora used in contrastive analysis—comparable and parallel bidirectional—a discussion of how they relate to different *tertium comparationis* is presented. This is further illustrated in a case study where the same phenomenon is investigated based on the two types of corpora. It is concluded that a bidirectional parallel corpus, relying on both comparable monolingual and bidirectional translation data, may yield more robust insights into cross-linguistic matters than either of the two on their own.

Keywords: contrastive analysis; *tertium comparationis*; comparable corpora; parallel corpora; English; Norwegian; *for NPgen sake*

## *1. Introduction*

This paper addresses one of the main challenges within the field of contrastive linguistics, namely equivalence, through a direct comparison of two types of *tertium comparationis*. It is generally agreed that in order to establish equivalence across languages, a sound *tertium comparationis* is needed, i.e. an objective background of sameness that ensures that we compare like with like. Several *tertium comparationis* have been launched over the years, including surface form, deep structure and translation, but no consensus has been reached (see e.g. James 1980; Ebeling & Ebeling 2013a). That form, or surface structure, alone is a poor basis for comparison if the aim is to study meaning and/or function is acknowledged by Biber (1995) in a contrastive study of relative constructions, where he notes that “despite the obvious structural similarities between relative constructions in Somali and English, the distribution of these features indicates that they are serving very different functions in the two languages” (Biber 1995: 75).

Within corpus-based contrastive analysis, the types of available *tertium comparationis* are very much tied to the different types of corpora

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that are typically used in cross-linguistic research, i.e. comparable corpora and parallel corpora of different kinds (e.g. uni-, bi- or multidirectional). Johansson (2011) strongly believes in the advantages of using parallel as opposed to comparable corpora:

The special advantage of parallel corpora is that they contain texts which are intended to express the same meanings and have the same discourse functions in the relevant languages. Using the source or the target language as a starting-point, we can establish paradigms of correspondences. [...] The most difficult problem in using comparable corpora is knowing what to compare, i.e. relating forms which have similar meanings and pragmatic functions. (Johansson 2011:126–127)

Arguments against using translations as the (only) *tertium comparationis* in cross-linguistic studies come, in particular, from scholars who see translations as a ‘third code’ (Frawley 1984), and who claim that translations will deviate from the source text to a considerable degree, making them unsuitable as an empirical basis. Teubert (1996), for instance, says that “[t]ranslations, however good and near-perfect they may be (but rarely are) cannot but give a distorted picture of the language they present” (1996: 247).

Against this backdrop, we will conduct the same study based on the two types of corpora (comparable and parallel) representing different *tertium comparationis*. To our knowledge no study has hitherto systematically carried out the same study on the basis of comparable vs. bidirectional parallel corpora and juxtaposed the analysis in the way done here. We hope to be able to demonstrate the impact the type of corpus might have regarding insights gained about cross-linguistic equivalence.

We start with a brief outline of modern contrastive analysis (CA) as a systematic research paradigm in Section 2. Section 3 discusses different kinds of contrastive corpora, how they relate to different *tertium comparationis* and thus may have an impact on how equivalence in CA is tackled. Also in Section 3, an overview of the pros and cons of such “contrastive” corpora is presented. Section 4 introduces the English-Norwegian contrastive case study that is used as a testbed for carrying out the same study on the basis of a comparable vs. a bidirectional parallel corpus, demonstrating two different *tertium comparationis*: similar forms and translation (Sections 5 and 6, respectively). Some concluding remarks are offered in Section 7.

## 2. Modern Contrastive Analysis

In this section, we offer a brief discussion of a select few approaches within modern contrastive analysis (CA). It would be impossible to describe and discuss the many ways in which to conduct a CA that have been proposed over the past 60 years or so in this short article. We refer the interested reader to some important works, and references therein, for more comprehensive and detailed accounts: Aijmer et al. (1996), Altenberg & Granger (2002), Johansson (2007), Hasselgård (2010), Ebeling & Ebeling (2013a) and Mair (2018) and articles published in the journal *Languages in Contrast* (John Benjamins).

A much-used approach in CA is to take a perceived similarity, or dissimilarity, between the languages to be compared as the point of departure, be it at the level of lexis, syntax or semantics (meaning). Based on the perceived similarity a null hypothesis, e.g. that the items/phenomena to be compared are equivalent, can be formed and tested. Chesterman (1998) advocates such an approach and recommends the following steps, where the starting point, and first step, is a (dis)similarity of any kind between phenomenon X in language A and phenomenon Y in language B. A phenomenon can in principle be almost anything: a situation, a gesture, a construction, a category or an item. Based on the similarity, the following question is posed (step 2): what is the nature of the similarity (form, meaning, function)? The third step involves the description of the relationship between X and Y in the compared languages, or as is more often the case, the relationship between X in language A and Y1, Y2, Y3, etc. in language B (see e.g. Dyvik (1998) and his semantic mirrors). Based on the outcome of step 3, the null hypothesis can be corroborated or rejected. The resulting description can also be used to enrich our knowledge of the individual languages and/or the relationship between the languages compared, at e.g. the formal, semantic and/or functional levels.

In addition to the rigorous method suggested by Chesterman, there are other, more exploratory ways into a contrastive study. One fruitful point of departure is any observed quantitative difference between original and translated texts of the same type and size (e.g. Johansson 2007: Ch. 4). Yet another approach is to register zero correspondences in a parallel corpus (e.g. Ebeling & Ebeling 2013b), that is where an item in one language does not seem to have a (direct) correspondence in the other language, and ask what the reasons for these non-correspondences

may be. One could also start more opportunistically by choosing a word, frame, pattern or construction in language A and record and analyse all the corresponding items/units in language B, i.e. create a list of translation paradigms, to describe similarities and differences at the levels of, for instance, syntax and/or semantics (e.g. Johansson 2001 on *seem* and its Norwegian correspondences). In all of these cases, close, qualitative scrutiny of the differences should be part of the study. Note that several of the more exploratory approaches require access to a corpus of original texts and aligned translations.

To end this short description of ways of doing CA, we quote Johansson (2012: 46) and what he calls “contrastive linguistics in a new key”, i.e. contrastive analysis in which

- the focus on immediate applications is toned down;
- the contrastive study is text-based rather than a comparison of systems in the abstract;
- the study draws on electronic corpora and the use of computational tools.

The list sets modern CA apart from early (pre-corpora) CA where the focus was on applied aims and applications, e.g. error analysis of learners’ mistakes and on (intuitive) claims about differences between languages or simply by comparing language systems, as found in e.g. monolingual grammar books (see James 1980; Mair 2018).

By modern corpus-based contrastive analysis we understand research which is grounded in empirical (corpus) data in two or more languages, with the challenges and limitations that this entails, for instance with regard to the type and amount of data available. This is in fact one of the main challenges of modern contrastive research. We now turn to these challenges in a comparison of comparable and parallel corpora.

### *3. Types of Corpora Used in Contrastive Analysis*

There is a clear difference between comparable and parallel corpora. The former are usually matched by period, genre and/or domain to enable the contrastive analysis, while the latter consist of original and translated texts in two or more languages, and are, in this way, also matched by

topic, function, meaning and style. Figure 1 presents an overview of these two main types of corpora.

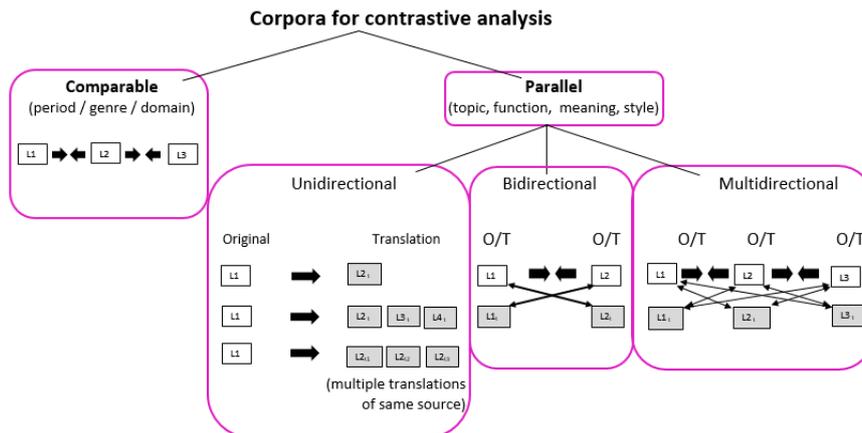


Figure 1. Corpora used in CA (inspired by Aijmer 2008; Johansson 2007; McEnery & Xiao 2007)

As shown in Figure 1, in a comparable corpus, original texts in two or more languages—L1, L2, L3 etc.—can be compared to each other, pairwise (L1 vs. L2; L1 vs. L3; L2 vs. L3) or one can compare L1 vs. L2 & L3, L2 vs. L1 & L3, etc.

When it comes to parallel corpora, these can be further sub-divided into unidirectional, bidirectional and multidirectional with an increasing complexity of correspondences: from the simplest unidirectional corpus between two languages (from Language 1 → Language 2<sub>T</sub>) to the most complex multidirectional one between several languages, e.g. L1, L2 and L3 with translations into the other languages (L1 → L2<sub>T</sub>; L1 → L3<sub>T</sub>; L2 → L1<sub>T</sub>; L2 → L3<sub>T</sub>; L3 → L1<sub>T</sub>; L3 → L2<sub>T</sub>). In addition, the structure of bidirectional and multilingual corpora enables comparisons of the comparable type as well as comparisons of features of translation within and across languages.

Corpus-based contrastive research between English and Norwegian and between English and Swedish has often been conducted on the basis

of a balanced, bidirectional, parallel corpus,<sup>1</sup> since, in addition to being comparable, such a corpus gives the researchers the possibility of starting the analysis in either language and in either original or translated texts and, more importantly, to control for translation effects and source language shining through (Johansson 2007; Teich 2003).<sup>2</sup>

Before we present the case study, it is useful to keep the pros and cons of the main types of contrastive corpora in mind. These are outlined in Table 1, which is inspired by Altenberg & Granger (2002), Johansson (2007), Aijmer (2008), Ebeling & Ebeling (2013a), and an adapted version of Hasselgård (Forthc.)

Table 1. The pros and cons of corpus types for CA

		Pros	Cons
Comparable corpora		<ul style="list-style-type: none"> <li>• Not restricted to translated text types</li> <li>• More readily available</li> <li>• Comparison of original language</li> </ul>	<ul style="list-style-type: none"> <li>• Criteria for comparability (TC)?</li> <li>• No alignment possible</li> <li>• Cannot reveal sets of cross-linguistic correspondences</li> </ul>
Parallel corpora	Unidirectional translation corpora	<ul style="list-style-type: none"> <li>• Alignment is possible</li> <li>• Meaning and function constant across the languages (<b>a relatively sound TC is present</b>)</li> <li>• Possible to discover (sets of) cross-linguistic correspondences ('translation paradigms')</li> </ul>	<ul style="list-style-type: none"> <li>• Restricted range of text types</li> <li>• Translation effects: <ul style="list-style-type: none"> <li>○ Traces of source language in translated texts</li> <li>○ Traces of the translation process, including errors</li> </ul> </li> </ul>

<sup>1</sup> See e.g. the bibliography of publications based on the English-Norwegian Parallel Corpus and the English-Swedish Parallel Corpus: [https://www.hf.uio.no/ilos/tjenester/kunnskap/sprak/omc/enpc\\_espc\\_publication\\_s\\_2014.pdf](https://www.hf.uio.no/ilos/tjenester/kunnskap/sprak/omc/enpc_espc_publication_s_2014.pdf)

<sup>2</sup> Translation effect has also been termed 'translationese' See e.g. Gellerstam (1986) and Volansky et al. (2013).

	<p>Balanced, bi- /multidirectional translation corpora</p>	<ul style="list-style-type: none"> <li>• Same as unidirectional translation corpora</li> <li>PLUS:</li> <li>○ Possible to check translations in both directions (control for translation effects)</li> <li>○ Comparison of original language</li> <li>○ <b>A sounder TC is present</b></li> </ul>	<ul style="list-style-type: none"> <li>• Even more restricted range of text types</li> <li>• Achieving balance of text types between directions of translations</li> </ul>
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Comparable corpora have one huge advantage over parallel corpora, and that is that they are not restricted to text types that are translated. It is, for instance, nearly impossible to find English translations of scientific texts originally written in a Scandinavian language, since researchers and scientists in the Scandinavian countries generally write in English.

One of the main challenges with comparable corpora is that the texts in the different languages are not directly and explicitly linked to each other linguistically. This means that it is hard to establish a sound and objective *tertium comparationis*, since one cannot be absolutely sure that one compares like with like. Even though the types of texts in the languages compared represent a common ground suitable for comparison, the actual items compared may not have been selected on the basis of a *tertium comparationis* that fulfills all levels of linguistic comparability: form, function and meaning. To some extent one may compensate for this by using one's bilingual knowledge or a dictionary.

Parallel corpora have the advantage that they can be aligned at sentence level, thus making it relatively easy to recognise corresponding items in original and translation, that is, a sound common ground on which to build a direct comparison is present. This common ground has been claimed to become even firmer and more objective if you have a bi- or multidirectional parallel corpus, which is also in effect a comparable corpus in that it contains original language data in all the languages compared (cf. Johansson & Hofland 1994; Johansson 2007; Aijmer 2008).

We now turn to the case study where we will perform an analysis of the same phenomenon in the two different types of corpora.

#### 4. *Case Study: Background*

The case study takes a previous contrastive investigation as its starting point. Ebeling & Ebeling (2014) present a corpus-based contrastive analysis of two similar-looking patterns in English and Norwegian, namely *for* \* *sake* and *for* \* *skyld*, where the asterisk stands for a genitive noun.<sup>3</sup>

The present study is in many ways an experiment in the sense that an attempt will be made to carve up the original study in a different way. The purpose of the experiment is to demonstrate and put focus on the pros and cons of two different *tertia comparationis* (TC) in contrastive analysis. The first TC is based on sameness of form and draws on corpus data from a comparable corpus of English and Norwegian, while the second is based on (sameness of form and) translation data from a bidirectional parallel corpus of English and Norwegian. The former will be referred to as “the comparable study” (Section 5) and the latter as “the bidirectional parallel study” (Section 6).

The corpus used for the occasion is the English-Norwegian Parallel Corpus+ (ENPC+) (Ebeling & Ebeling 2013a), which is structured according to Johansson’s parallel corpus model; thus it contains both comparable and bidirectional translation data in one (Johansson & Hofland 1994). The ENPC+ is an extended version of the fiction part of the English-Norwegian Parallel Corpus (ibid.) and contains around 1.3 million running words of contemporary English and Norwegian fiction texts and their respective translations into the other language.<sup>4</sup> In other words, it is a balanced corpus amounting to roughly 5.2 million words in total.

The comparable version of the study is based on material drawn from the texts originally written in English and Norwegian only, while material from both originals and translations will be explored in the bidirectional parallel study.

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<sup>3</sup> There are exceptions to this in Norwegian, where no genitive marking of the noun is found, e.g. *for moro skyld* (‘for fun sake’). Moreover, the *Oxford English Dictionary* notes that “[t]he omission of the *’s* is now obsolete, but it is still not uncommon to write *for conscience sake, for goodness sake, for righteousness sake, etc*”. However, no such instances were attested in our material.

<sup>4</sup> These include extracts of 10,000-15,000 words from 30 texts and nine full-text novels.

#### 4.1 Preliminary Observations of the Patterns

Ebeling & Ebeling (2014: 192) start by outlining the meanings of the *for* \* *sake* pattern according to *Oxford Dictionaries Online* (now Lexico.com): (a) for the purpose of, (b) out of consideration for or in order to help or please someone, and (c) to express impatience, annoyance, urgency, or desperation. It is argued that the Norwegian pattern incorporates the same meanings, as attested in examples (1)–(3) from Norwegian original texts with their translations into English.

**(a) For the purpose of something**

- (1) *For sikkerhets skyld* ber jeg ham tie om at vi har en kopi. (ToEg1N)<sup>5</sup>  
*For safety's sake*, I ask him not to tell anyone that we have a copy. (ToEg1TE)

**(b) Out of consideration for or in order to help or please someone**

- (2) En gang sa hun at hun gjorde det *for pappas skyld* og for oss, så vi hadde penger nok. (PeRy1N)  
 Once she said that she was doing it *for Dad's sake*, so that we would have enough money. (PeRy1TE)

**(c) To express impatience, annoyance, urgency, or desperation (expletive use)**

- (3) Si noe, *for Guds skyld!* (LSC2)<sup>6</sup>  
 Say something, *for God's sake!* (LSC2T)

The examples serve to illustrate that, based on dictionary definitions, bilingual competence and examples from translations, there is indeed a perceived similarity between the two patterns, not only in terms of form, but also in terms of meaning.

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<sup>5</sup> The corpus text code identifies the author of the text (ToEg = Tom Egeland), text number by that author (1) and language (N). The code of the English translation of this text is ToEg1TE. See Ebeling & Ebeling (2013a) for an overview of texts and text codes included in the ENPC+.

<sup>6</sup> In texts from the original ENPC, language is not specified in the corpus text code, thus LSC2 (and not LSC2N).

5. *Comparable Version of the Study*

We start by investigating the patterns on the basis of the comparable part of the ENPC+, i.e. the use of *for* \* *sake* in English originals vs. *for* \* *skyld* in the Norwegian originals. Following an analysis of the respective concordance lines in these texts, our first observation is that all three uses/meanings are attested in the original texts in both languages, e.g. examples (4)–(9).

**(a) For the purpose of something**

- (4) We stayed together *for appearances' sake*, ... (PeRo2E)  
 (5) ... det videre søket etter Leike ville bare være *for syns skyld*. (JoNe2N)

**(b) Out of consideration for or in order to help or please someone**

- (6) Just for a while, then, another chapter or two — *for Miriam's sake*. (PaAu1E)  
 (7) ... men *for Mathias' skyld*, herregud, de hadde jo et barn sammen! (JoNe1N)

**(c) To express impatience, annoyance, urgency, or desperation (expletive use)**

- (8) *For God's sake*, stop! (MiWa1E)  
 (9) — Pass opp, *for Guds skyld*, ropte vi. (PePe1N)

When each instance of the patterns is classified according to meaning, striking cross-linguistic differences become apparent. As shown in Table 2, the preferred use is very different in the two languages: expletive is by far the most common use in English and the purpose use is the most common use in Norwegian.

Table 2. Distribution in the original texts according to meaning (Ebeling & Ebeling 2014: 201)

Meaning	<i>for</i> * <i>sake</i>		<i>for</i> * <i>skyld</i>	
	EO		NO	
Purpose	3	3.5%	47	73.4%
Consideration	17	20.0%	12	18.8%
Expletive	65	76.5%	5	7.8%
<b>Total</b>	<b>85</b>		<b>64</b>	

The difference can be summed up as follows, in terms of preferred use in the two languages:

- English: Expletive>Consideration>Purpose
- Norwegian: Purpose>Consideration>Expletive

An almost symmetrically opposite use is thus noted for expletive and purpose *for* \* *sake* and *for* \* *skyld*, with the consideration use nicely placed in the middle and used with proportionally very similar frequencies in the two languages (20% vs. 18.8%).

Further cross-linguistic (comparable) analysis reveals additional differences in the use of the English and Norwegian patterns. These can be summarized according to Sinclair's (1996, 1998) extended-units-of-meaning (EUofM) model, in which the English and Norwegian patterns can be said to operate as cores of two different EUofM. To elaborate: the immediate context of the English and Norwegian patterns (cores), studied through concordance lines, clearly show that, although they both colligate with a noun in the genitive, they typically take different collocations, have a different semantic preference, and ultimately a different semantic prosody. The semantic prosody of the unit with the English core *for* \* *sake* is to express annoyance, bordering on the negative, while Norwegian *for* \* *skyld* is part of a more neutral unit expressing purpose.

In the light of this analysis, we can conclude that a comparable study of the two patterns offers valuable cross-linguistic insights along the lines outlined in Figure 2.

	English (Core: <i>for</i> * <i>sake</i> )	Norwegian (Core: <i>for</i> * <i>skyld</i> )
Collocation	<i>for</i> [ <i>God's</i> / <i>Christ's</i> / <i>fuck's</i> ] <i>sake</i>	<i>for</i> [ <i>sikkerhets</i> / <i>syns</i> / <i>ordens</i> ] <i>skyld</i>
Colligation	<i>for</i> NPgen <i>sake</i>	<i>for</i> NPgen <i>skyld</i>
Semantic preference	words to do with <u>religion, sex</u>	words to do with <u>arrangement</u> (order, safety, simplicity)
Semantic prosody	(Negative) <u>annoyance</u> (in the form of swearing or near-swearing)	(Neutral) <u>purpose</u> (typically for the purpose of safety)

Figure 2. *for* \* *sake* and *for* \* *skyld* as cores of different EUofM

The comparable analysis raises a set of pertinent questions: how similar are these two patterns? Have we compared like with like? And to make sure we do that, how can we best capture expressions that are similar in meaning to the *for* \* *sake* or *for* \**skyld* patterns in the other language? For example: How is the expletive use typically expressed in Norwegian if not by the formally similar pattern?

To investigate this, we turn to the bidirectional parallel version of this study, to see what insights this may yield in addition to what we have now learnt from the comparable part of the study.

#### 6. *Bidirectional Version of the Study*

The first step in this part of the analysis is to give an overview of the number of occurrences of the English and Norwegian patterns in the original texts and to what degree they correspond to each other in translation. In other words, we are concerned with congruent and non-congruent correspondences of the patterns, where congruent means formally similar and non-congruent formally dissimilar (Johansson 2007; Ebeling & Ebeling 2013a). Table 3 offers a simplified overview of such correspondences of the patterns in the bidirectional parallel material.

Table 3. Translations of *for* \* *sake* and *for* \* *skyld* in the ENPC+ (raw numbers)

Correspondence	EO > NT	NO > ET
Congruent <i>for</i> * <i>sake</i> = <i>for</i> * <i>skyld</i>	27	18
Non-congruent <i>for</i> * <i>sake/skyld</i> = 'other'	58	46
Total	85	64

Not surprisingly, based on what has already been shown, the correspondence in translation between the two patterns is far from 100%. Going from English into Norwegian (EO > NT): *for* \**sake* is translated congruently into *for* \* *skyld* in 27 out of the 85 cases, and from Norwegian into English (NO > ET) in 18 out of 64. Following Altenberg (1999), this gives a mutual correspondence of only around 30% for the patterns, i.e. they are only used to translate each other in about 30% of the cases. Although it is rare to find items with a mutual correspondence of 100%, such a low cross-linguistic correspondence rate as the one established for *for* \**sake* and *for* \* *skyld* suggests that the two patterns have very different conditions of use in their respective languages, thus

adding strength to the conclusions arrived at in the comparable analysis in Section 5.

The low mutual correspondence begs the question of what actually happens in the translation of the patterns, not least in the non-congruent cases. Examples (10)–(12) show the main tendencies for the English pattern.

**English expletive → non-congruent**

- (10) “They’re just traffic cones, *for fuck’s sake*.” (PeRo2E)  
 “Det er jo bare trafikkjegler, *for faen*.” (PeRo2TN)  
 Lit.: ... for the devil

**English consideration → congruent**

- (11) *For my sake*. (JB1)  
 For min skyld. (JB1T)

**English purpose → congruent**

- (12) We stayed together *for appearances’ sake* ... (PeRo2E)  
 Vi holdt sammen *for syns skyld* ... (PeRo2TN)

Typically, then, the main use in English—the expletive use—is translated by a non-congruent correspondence in Norwegian, in 54 out of the 65 cases (see Table 2), as in (10), possibly because this is the least favoured use of the Norwegian pattern. Both the consideration use in (11) and the purpose use in (12) represent more natural and idiomatic uses in Norwegian, and the few cases, are rendered congruently, in 13 out of 17 cases for the consideration use and in three out of three cases for the purpose use (see Table 2).

Similarly, in the other direction of translation—from Norwegian into English—the few instances of the expletive use in Norwegian typically get a congruent expletive translation in English (four out of five), as in (13). This is also the case for the consideration use in (14), in eight out of 12 cases, whereas the favoured use in Norwegian, purpose, typically gets a non-congruent correspondence in English (in 41 out of 47 cases; see Table 2), as shown in (15).

**Norwegian expletive → congruent**

- (13) - Slipp han nå *for guds skyld ned*. (PePe1N)  
“Put him down, *for God’s sake*.” (PePe1TE)

**Norwegian consideration → congruent**

- (14) ... hun gjorde det *for pappas skyld* ... (PeRy1N)  
... she was doing it *for Dad’s sake* ... (PeRy1TE)

**Norwegian purpose → non-congruent**

- (15) Han rygget et skritt *for sikkerhets skyld*. (KaFo1N)  
Lit.: ... for safety’s sake  
He retreated a step, *just to be on the safe side*. (KaFo1TE)

The tendencies reported in both directions of translation corroborate, and add more confidence to, the findings from the comparable (part of the) study with regard to preferred meanings and uses: expletive in English and purpose in Norwegian. In addition, the bidirectional study provides non-congruent correspondences in both directions of translation showing by which means (forms) the expletive use is rendered in Norwegian and the purpose use in English. Thus, a more robust contrastive analysis is achieved.

In the following, we will look in more detail at the non-congruent correspondences of the two uses that differ the most. We start with the purpose use in Norwegian before moving on to the expletive use in English in order to see how these uses are expressed in the other language in terms of non-congruent correspondences, both as translations and as sources.

The most frequent purpose expressions in the Norwegian data are *for sikkerhets skyld* ‘for safety’s sake’ and *for moro skyld* ‘for fun sake’, and Table 4 shows the two correspondence patterns that are clearly preferred to express the former of these in English (*to be on the safe side* and *just in case*). Another pattern is clearly preferred to express the latter, namely *for* + Noun, as in *for fun*, *for pleasure* etc.). The ‘other’ expressions referred to in Table 4 are not tied to specific nouns in the open slot in Norwegian, but quite a few of the English correspondences have the fixed expressions *a matter of* and *for the sake of* followed by a noun.

Table 4. The most salient non-congruent English correspondences (translations and sources) of the most frequent Norwegian purpose uses with *for* \* *skyld*

<i>for sikkerhets skyld</i> ('for safety's sake')	<i>for moro skyld</i> ('for fun's sake')	Other
<i>to be on the safe side</i>		
<i>just in case</i>		
	<i>for N (fun / entertainment / pleasure)</i>	
		<i>a matter of N</i>
		<i>for the sake of N</i>

As for the English expletive use, the three most frequent sequences in the English texts are *for Christ's sake*, *for fuck's sake* and *for God's sake*. The most salient non-congruent Norwegian correspondences are listed in Table 5.

Table 5. The most salient non-congruent Norwegian correspondences (translations and sources) of the most frequent English expletives with *for* \* *sake*

<i>for Christ's sake</i>	<i>for fuck's sake</i>	<i>for God's sake</i>
<i>for svingende</i> (lit. 'for swinging')		<i>for svingende</i> (lit. 'for swinging')
<i>herregud</i> ('God', lit. 'lordgod')		<i>herregud</i> ('God', lit. 'lordgod')
<i>helvete</i> ('hell')		
	<i>(for) faen</i> ('(for) the devil')	<i>(for) faen</i> ('(for) the devil')
		<i>i herrens navn</i> ('in the lord's name')

It is interesting to note that there is some overlap in the Norwegian correspondences of the three different English expletive patterns. Both *for Christ's sake* and *for God's sake* have *herregud* 'lordgod' and the rather strange expression *for svingende* 'for swinging'. While the former is an expletive within the same domain as Christ and God, *for svingende* can, as pointed out in Ebeling & Ebeling (2014: 203), be considered a pretend or quasi-swear word or *nestenbanning* ('almost-swearing') in Hasund's (2005) terms. *For svingende* is only found in the translations, and it could be argued that the translators have tried to tone down the

expletive, even if *for Christ's sake* and *for God's sake* are thought of as fairly mild expletives.

The other overlap in the correspondences is arguably more curious, as the two English expletives—one from the sexual domain (*for fuck's sake*) and one from the celestial (*for God's sake*)—both are found to correspond to the diabolical *faen* ‘the devil’. This is in fact the most common Norwegian correspondence of the English expletive overall.

Of the two remaining, relatively common non-congruent correspondences shown in Table 4, *i herrens navn* ‘in the lord's name’ seems a more natural and unmarked correspondence of *for God's sake* than *helvete* ‘hell’ is of *for Christ's sake*.

Although we can merely speculate at this stage, observations like these may tell us something about a culture's swearing preferences, with English being, in this pattern at least, drawn towards the celestial and sexual, while Norwegian is drawn either towards the diabolical or the celestial (*herregud*, *i herrens navn*).

### 6.1 Summary of the Bidirectional Parallel Study

In addition to uncovering different preferences of use in English and Norwegian (including different extended-units-of-meaning) on the basis of both comparable and parallel data, we have been able to demonstrate that access to, and analysis of, bidirectional translation data means that we, through translation as TC, can offer corresponding, and arguably more equivalent, expressions of the *for \*sake / for \*skyld* pattern in the other language. For example, typical Norwegian expletives corresponding to the expletive *for \*sake* pattern emerged, and similarly, other and more typical English expressions of purpose corresponding to the purpose *for \*skyld* pattern emerged. These can be further explored in a more comprehensive contrastive study of swearing and the expression of purpose between the two languages. In addition, highlighting the importance of bidirectionality, the “soft” Norwegian correspondence of the English expletive (*for svingende*) may be considered less equivalent than the other correspondences since it was only attested in the translated material. Moreover, the observation from the comparable study that the patterns seem to be cross-linguistically most similar to each other in the consideration use was not only confirmed on the basis of the

bidirectional data, but further evidence was brought to the table through the large proportion of congruent correspondences.

We believe that we gain a deeper understanding of the items compared when using a bidirectional parallel technique as it offers a more comprehensive contrastive account of the patterns compared. It should also be mentioned that a bidirectional parallel study like this one could, and perhaps even should, serve as a starting point for further investigations that draw on much larger comparable monolingual corpora.

### 7. Concluding Remarks

In this article we have outlined some of the main types of corpora used in contrastive research and pointed out some of their strengths and weaknesses. In general terms, these can be summarized as follows: To investigate cross-linguistic correspondence and equivalence on the basis of a comparable corpus, researchers typically take predefined items or categories as their starting point, emerging from a perceived similarity (or even dissimilarity in some cases) in two or more languages (e.g. causative constructions). The CA in these cases may be based on the researcher's bilingual knowledge, dictionaries, grammars, and earlier research of previously identified causative constructions.

Parallel bidirectional corpora, on the other hand, add the dimension of having access to a pool of translators' bilingual competence, and what choices the translators make in similar linguistic situations. This enables investigations of both predefined and undefined items through perceived similarities or dissimilarities. Moreover, there is arguably more room for purely exploratory studies when the contrastive analysis is based on bidirectional translation data.

Following these general observations regarding different types of corpora and the *tertia comparationis* they represent, an attempt was made to directly compare the two different corpus-based contrastive methods by performing two versions of the "same" cross-linguistic study. The rationale behind this exercise was to see to what extent it would lend support to the view held by some contrastive linguists that correspondence in translation is a good *tercium comparationis* if applied to carefully structured bidirectional parallel corpora. It was found that a bidirectional study arguably yielded more robust cross-linguistic results

as it has the extra advantage of providing translation paradigms. The bidirectionality of such corpora also ensures that the researcher can control for translation effects, i.e. potential translation-specific features.

It should be stressed that the idea of using bidirectional data for contrastive analysis is not our own. We are indebted to Stig Johansson, in particular, for devising a corpus integrating comparable monolingual and bilingual translation data within the same model, as first seen in the English-Norwegian Parallel Corpus (ENPC) (Johansson & Hofland 1994). The structure of the ENPC clearly yields results that are arguably superior to results obtained exclusively on the basis of comparable data—at least if the aim is to gain insight into the full cross-linguistic picture. As pointed out by Aijmer (2008: 208),

[i]t is difficult to see how any other method could give such a clear and detailed picture of the relationship between the languages and contribute to the language-specific description of the languages compared.

However, comparable corpora are indispensable in contrastive studies, particularly when integrated within a bidirectional parallel set-up, but also as providers of more extensive data sets. Indeed, in a recent publication by Granger (2018: 183), a methodological framework termed Contrastive Translation Analysis is introduced, where a “multi-corpus empirical basis for corpus-based crosslinguistic studies” is called for. In this framework, both comparable and parallel corpora have a place and, in addition, learner corpora of the languages being compared (ibid. 190).

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