



Quaker Prophetic Language in the Seventeenth Century: A Cross-Disciplinary Case Study

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Article

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Abstract: This paper explores three themes: (i) a short, empirical research account of the linguistic realization of seventeenth-century Quaker prophecy using digital corpus-based tools; (ii) a practical description of how those tools can be used in interdisciplinary research such as the prophecy study; and (iii) a reflective section that considers the advantages, potential richness but also challenges of embarking on an integrated piece of research that straddles established academic disciplines. The 'prophecy' analysis comments on the nature of prophecy from a linguistic perspective. It includes positive and negative connotations observed in the data contrasted with non-Quaker texts (including the Bible), and also how Quaker prophetic style changed during the second half of the seventeenth century. The secondary purpose of the paper is to demonstrate the value of departing from traditional, well-established approaches in a discipline such as religion. Quaker studies scholars are familiar with the exercise of grappling with unfamiliar approaches, concepts and specialist vocabulary in order to learn about new insights that they might not otherwise encounter. The present quantitative-based study of Quaker prophesying is a fresh attempt to bring new life to this aspect of historical Quaker writings.

Keywords: Quaker prophecy; style; connotation; seventeenth-century; digital corpus-based; concordance; interdisciplinary

1. Introduction

This paper has three different but related aims. Firstly, it explores the nature and extent of the language of prophetic discourse published by over a hundred different Quakers in the second half of the seventeenth century. The apocalyptic message contained in these pamphlets, prose broadside texts and books was the main reason Friends developed their initial energetic campaign of preaching and pamphleteering. My research findings address these primary questions: What was the nature of the Quakers' prophetic message, how was it expressed, and how does the impending 'Day of the Lord' message (as they saw the imminent end times) compare to the biblical book of Revelation upon which their eschatological cry is based? I present analytical findings from several aspects of Quaker prophecy: (i) the positive or negative nature of the range of Quaker eschatology; (ii) Quaker anti-Calvinist understandings; (iii) how the style and content of prophetic language changed in the published texts of many early Quaker writers. Quaker discourse is touched on in its wider early Modern sense beyond the present-day one of apocalypse.

The second aim of the paper is to introduce in more general terms a methodology little used previously in Quaker studies scholarship but employed in the prophecy enquiry introduced above (see also Roads 2012, 2017a, 2017b) (This method relies on simple corpus-based analytical techniques that yield quantitative results; these can be combined with qualitative observations. In the final part of the paper, I offer a very brief overview of the issue of interdisciplinary research generally before addressing some questions that an approach such as mine throws up. What are its advantages, to what uses can quantitative analytical techniques be put, and what are the challenges a researcher might

face? I hope readers of this paper will feel able to engage with the crossover of disciplines referred to throughout.

2. Historical Prophecy and the Corpus Data

This section introduces my Quaker corpus, the nature of historical prophecy and linguistic issues connected to such analysis.

2.1. The Quaker Corpus

My research makes use of nearly 200 Quaker-authored texts (~638,000 words) ranging from 1650–1699. Although compiled randomly, one purpose of making the collection was to spread the net as widely as possible so that a breadth of representation could be achieved, thus enabling a measure of generalisation to be put forward. More on the representativeness of the corpus, and therefore its reliability, in Section 3.2. Many of the early Quaker published texts either include or are primarily concerned to express an eschatological message. However, George Fox, as one of the founders of Quakerism, urged Friends to warn of a need to repent before the imminent end of time (as he and other Quakers saw it), and an eschatological warning was not his primary message, which was rather one of discovery of a new way of accessing the Truth (Ambler 2007, pp. 180–86) and a mission to proclaim this discovery to the world. It was other Quakers who felt more impelled to take it upon themselves to disseminate in print their urgent message of repentance. Barbour and Roberts (2004, pp. 47–148) assign a chapter on *Tracts to Proclaim the Day of Visitation*. Gwyn (1986) devotes an entire book to the subject as do Dandelion et al. (1998). Moore (2000, pp. 61–67) reports on the 'eschatological standpoint' of some of the Quakers, describing it as their imminent expectation of 'the Kingdom of God' on earth; Part 1 (pp. 21–103) of Smith (1989) study covers this topic extensively.

Not all prophetic writing at this time has the sense of 'predictive', however. In the seventeenth century, the term denoted more than predictive discourse and included such forms of utterance as public preaching, reading and interpreting the Scriptures in persuasive discourses that referred to the present as well as the future, and making divinely inspired prophetic judgements (Smith 1989; Aune 1991; Font Paz 2009). My enquiry into such texts takes as a starting point the linguistic expression of futurity as the central expression of the speech act of religious predictive prophesying.

2.2. The Nature of 'Prophecy'

Much has been written concerning Christian prophecy, starting from Old Testament biblical texts to the later prophetic writings of the New Testament and then the revival of prophetic visions and outpourings during the seventeenth century. Aune (1991, p. 198) comments, as part of his study on early Christianity, that the act of prophesying 'can be understood in many different ways'. Sweeney (1996, pp. 18–30) finds at least seventeen forms of prophecy, including *prophetic judgement*, *announcements of a sign or event*, '*woe' oracle*, *vision report* and *proclamation of Christ's coming*. All of these forms are found in the Quaker writings, but the most common variety published during the early years of the Quaker movement was the foretelling, apocalyptic form.

In order to disentangle those (parts of) Quaker texts that express prediction (mainly connected to non-spiritual utterances) from prophecy, it is necessary to identify and then exclude such elements before analysing the remainder. Searle and Daniel (2009) claim that a writer or speaker who is forecasting is making:

... a special kind of prediction that is based on relatively clear signs of how something seems to be shaping up. To foretell is to 'tell' in advance, often something rather vague.

They contrast this with the proposition that prophecy has the underlying meaning (known in speech act theory as 'illocutionary force') of a prediction:

[Prophesy] has the illocutionary force of a prediction with an additional, particularly with an additional, particularly authoritative model of achievement. The latter has to do with the

authority of an oracle ... of God or of divine revelation. The speaker presupposes that he has *good reasons for the belief to the point of certitude* (my italics) (Searle and Daniel 2009, p. 173).

In theory, therefore, it should be possible to retrieve all the instances of this special type of prediction. The next section explains how can these be identified.

2.3. The Linguistic Realisation of Apocalyptic Prophecy

What is exhortatory prophecy in the Quaker context? To find out, I developed a set of criteria as preparation for categorising Quaker apocalyptic prophetic statements, building on a body of theoretical work (Wierzbicka 1987, pp. 269–70; Gotti et al. 2002, pp. 224–28; Gotti 2003, pp. 267–96; Clenenden 2003). The process for carrying out the computer-based searches is described in Section 3 of the present paper. I used the application *Wordsmith Tools* (Scott 2008), but other software packages and online resources are also available.

The list presented below contains some language-related technical terms. This cannot entirely be avoided but is typical of cases where my related discipline of linguistics rubs up against a theologically-based discussion, in this case a discussion on the nature of prophesying. Modal auxiliary verbs are verbs such as *will, shall, can, might, must* that are not used on their own but rather in conjunction with a main verb. They can express many meanings in English; the two forms and functions relevant to this enquiry are *shall* and *will*, which together with a main verb are one way of expressing future actions in English, for instance in the sentence: *she <u>will come</u> back tomorrow*.

Below is the final set showing which sets of occurrences I included and which I excluded from my corpus results: (The forms SHALL/WILL here denote all instances of *shall, shalt, will, wilt.* It is a convention in linguistics and adopted in this paper to indicate a headword or 'lexeme' using small capitals. This differentiates from individual word or phrase examples that are formatted simply in italics. The original spelling remains unchanged.).

Included	Excluded
 SHALL/WILL instances conveying a dynamic intention. The writer's subjective or 'God-given' assertion that an event was to take place but no time or natural place is stated. Utterances presumed to be spoken directly by God and using the first person singular pronoun. Biblical quotations, whether referenced as such by the writer or woven into the general text. 	 Adjacent conditional subordinate clauses as they could be categorized as warnings. SHALL/WILL instances according to Gotti et al.'s (2002) classification, signifying: volition, refusal, promise, order, prohibition, inference, possibility. Interrogatives (deemed not to be carrying sufficient force for prophecy). Instances of neutral (non-religious) prediction, habit and assurance. Occurrences of the verb <i>prophesy</i> as denoting a different prophecy type from apocalyptic. Any item that carried a weak sense of prophecy, based on my qualitative judgement, or was ambiguous in the context. The lexical verb <i>will</i> (signifying volition).

Two studies that have informed my approach are based on the grammatical realisation of prediction through certain modal auxiliaries. Gotti et al. (2002, p. 41) single out 'prophecy' as a sub-set of 'prediction' by asserting that it is the strength of a prediction in context that makes it prophetic. They arrive at this definition by analysis of modal auxiliary usage, specifically SHALL and WILL, in a historical context. The following examples from my corpus illustrate how I classify such instances (linguists refer to this as 'coding'). Examples (1) and (2) show the type of eschatological foretelling that is a central component. References for the source texts are listed in the Appendix A:

- (1) Therefore hear this you hard hearted ones and stiffnecked, who rebel against the Lord your maker, there is a day hastening, and an hour approaching, which will make you gnash your teeth for very anguish, and weepe and howl for very sorrow, to consider how you have slighted the day of your visitation (M. 1660),
- (2) For the candle of the wicked is to be put out, and then a woful day **will be known** unto all those who are left in darkness; they **will not know** whither to go (Gillman 1663).

Examples (3) and (4), on the other hand, are coded as simple prediction as they lack the special force or other qualifying criteria necessary for classifying as prophecy:

- (3) But as Darkness increaseth in thee, so the Power of it **will bind** thee **down** as a Chain, and smother every good desire in thee (Crisp 1666),
- (4) The Lord God of Power **will exalt** his Princely Scepter, over all Scepters, Thrones and Dominions, Kingdoms and Countries, and none **shall be able to prevent** him (Evans 1663).

These decisions are necessarily subjective and there is a fuzzy boundary separating one rater's coding as 'prediction' with another's coding as 'prophecy'. The most practical descriptions for identifying the pragmatic meanings of predictive prophesying comes from Wierzbicka (1987):

Prophesying, like predicting, involves saying what will happen in the future. There is, however, something mysterious and almost mystical about it. The prophet feels that he knows things about the future that other people don't know, and can't know, because they are 'hidden' from them. For some reason, that the prophet himself doesn't quite understand, he can 'see' in his mind what other people can't see. ... He can 'see' ... things about the future because he has somehow been chosen by God to convey publicly a message which is important 'to everyone'. ... It is inconceivable that a prophecy should include a date. Prophesying differs in this respect not only from *predicting*, which can be extremely precise, but even from fortune-telling (Wierzbicka 1987, pp. 269–70).

In addition to the criteria listed in this section, a list of 'I-statements', suggested by Wierzbicka for testing the nature of a potentially prophetic utterance, was helpful as a second approach for classifying some of the more ambiguous occurrences. Meanings that help to identify linguistic realizations of prophetic utterances:

- I know things about the future that other people don't know
- I imagine I can see these things happen
- I don't know how and when they will happen
- I know that I haven't come to know these things in the way people are expected to come to know things
- I feel as if somebody else was speaking through me
- I think God is speaking through me
- I say: sometime in the future X will happen
- I assume it will be important for everyone
- I assume that people should do something because of that
- I say this because I feel I have to say it

Wierzbicka (1987, p. 270).

2.4. Quaker Prophetic Discourse: Positive and Negative Connotations

The results of my analysis show that approximately a third (34%) of all SHALL/WILL occurrences are prophetic statements. This reduces to 24%, or approximately a quarter if we limit the results to unconditional statements (namely, propositions that do not begin with if ...). I classify those separately

as 'warnings' realised using conditional clauses, and as a special case syntactically I have excluded those findings from the present paper. These are the raw figures obtained via the software:

4449 occurrences of SHALL/WILL modal auxiliaries (all senses, not just futurity), 1510 occurrences of SHALL/WILL classified as eschatological prophecy statements.

Applying the criteria for identifying apocalyptic prophecy as listed above shows that some instances carry a positive or optimistic predictive prophecy, others a negative or pessimistic and a few carry a neutral sense. The results show an interesting mix of optimistic as well as pessimistic apocalyptic statements. The first set of examples (5) to (7) is comprised of negatively-loaded prophetic statements:

- (5) Behold the day is coming, ye **shall wish** the Mountaines to fall upon you, and the rockes to cover you, and **shall seek** death, but **shall** not **finde** it (Howgill and Burrough 1655),
- (6) The Lord **will hew** you **down** and **consume** you, and your remembrance **shall stink** for ever, the Lord **will cast** you **out** of his sight (Taylor et al. 1655),
- (7) In the power of his spirit in his poor contemptible people, by that which the world calls foolishnesse, will the Lord confound not only your Languages; but the very Places, Shops, and Nurseries of abomination, and all Schools, Colledges and Steeple-houses shall all be laid waste, having bin the Nurseries of the Whore and false Prophets (Zachary 1660).

The Quaker positively-loaded prophecies often convey the Christian message of hope at the End Times, or (from the point of view of the writers) the final triumph of 'God's people' over the wicked and their persecutors. Many instances are either biblical or paraphrased from the Bible. Examples (8) and (9) follow:

- (8) And in the judgment, all the powers of darknesse which held you captive **will vanish**, the lofty spirit **will be brought down**, and the humble and meeke spirit **raised** (Zachary 1660),
- (9) And for ever blessed are all they that hold out unto the end, and keep the Word of his Patience, they shall be hid in the hollow of his hand, kept safe in his Pavilion, and a defence will he make about his people, and Zion shall be the praise of the whole Earth, a beautiful City, compact, compassed about with salvation for Walls and Bulwarks, and the Mountain of his Holiness shall be on the top of all Mountains, and no Destroiers shall be found in it; the pure in heart shall see it (Nayler 1661).

The neutrally-loaded connotations mostly concern the eschatological prophecy of the Last Judgement but without specifying whether that is to be welcome or unwelcome information for the addressees. For example: 'everyone <u>shall have reward</u> according to their works' (Stoddard 1655). The illocutionary intention was probably to give warning to the readers, but the context requires that, for the present study, we should assign the benefit of the doubt. Occurrences that were not classified as prophecy mostly concern a foretelling of some action on God's part in the temporal world, for example: 'Come to Gods Witness, it will abide with you; and as you abide with it, you will know its power and its leadings' (Blackborow 1658). This group of items is coded as 'spiritual counsel' for the purposes of this study and not as apocalyptic prophecy.

2.5. 'Foretelling' Prophecy Comparisons

What else can the results tell us? One line of enquiry is to compare the findings of the prophetic set of SHALL/WILL instances with those of the Book of Revelation, the source for many of the Quakers' apocalyptic utterances. I performed this exercise using a machine-readable text file of the King James Version. Table 1 presents figures comparing these modal frequencies in both the Quaker corpus and the *Book of Revelation*.

actual figures in brackets.

	Quaker Corpus	Book of Revelation (KJV)
all occurrences of SHALL/WILL modals	69.7 (4449)	116.6 (145)
all occurrences of prophecy speech acts	23.6 (1510)	101.3 (126)

Revelation shows a much higher frequency count compared to the Quaker results (101.3 per 10,000 words), but its function is primarily prophetic and so serves as a benchmark text for all Christian-era prophesying. I now turn to comparisons for predictive prophetic utterances carrying various connotations. The figures make interesting comparisons. *Revelation* is all about the future so one would expect relatively more instances than in the range of Quaker texts, and indeed the negative connotations found in Revelation are more frequent than the Quakers provide., But Revelation is less often connected to a positive, glorious future in the minds of doomsayers of any era and the Quakers at this time seem to be no exception. Table 2 below presents comparisons for instances of positive, negative and neutral connotation. Observed scores for the Quaker set show just under seven words per 10,000 words compared to the biblical set of just over 40 per 10,000 words. (An explanation of norming the word count frequencies per x number of words is explained in Section 3.5). The scores for positive prophetic utterances, for example, reveal a much higher value for those found in the Book of *Revelation* compared to the Quaker corpus data. The difference in the negative connotations shows a relatively smaller gap.

Table 2. Comparison by frequency of context-based prophecy-connotations: Quaker corpus and the Book of Revelation, KJV.

	Quaker Corpus	Book of Revelation (KJV)
negative prophecies	15.5 (992)	31.3 (39)
positive prophecies	6.8 (439)	40.2 (50)
neutral prophecies	1.3 (85)	25.7 (32)

Next, Figure 1 below presents a pie chart showing the ratios of positive versus negative prophetic utterances for each of the two datasets. The left-hand chart refers to the ratios for Revelation and the right-hand chart refers to the ratios for the Quaker corpus.

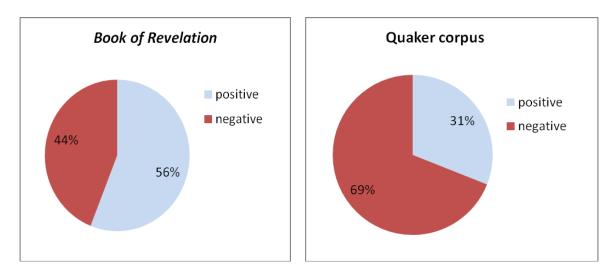


Figure 1. Simple ratios of negative to positive connotations in the Book of Revelation and the Quaker corpus.

The proportion of prophetic statements in the *Book of Revelation* classified in the present study as positive is greater than the negatively classified set. This contrasts strongly with the early Quaker interpretation of the apocalypse according to the corpus evidence. In other words, the Quakers' vision of the 'Day of the Lord' is a good deal more pessimistic than the biblical one.

2.6. Quaker Non-Calvinist Understandings

Can corpus searches tell us anything about the Quakers' anti-Calvinist prophetic writings and their rejection of predestination? Much has been written about the struggles early Quakers had when challenged about their apparent denial of Christ, Scripture and so on—see, for example, Moore (2000, pp. 98–111). They were often accused of blasphemy and imprisoned for it, as described in Manning's paper *Accusations of Blasphemy*. (Manning 2009). Some of the contemporary writings of this period reflect this position, notably Robert Barclay's (1678) *Apology* (see Spencer 2015, pp. 142–44, for a very readable summary). This topic deserves an article all to itself but perhaps a simple search on the lexical headword DENY can serve as brief illustration. The corpus retrieves 928 instances of this verb, excluding all gerunds. An inspection of the total active/passive forms produces useful patternings. (All these sources are cited in the Appendix A). The occurrences of the active mood forms of DENY account for 86% of the total number, for example:

- (10) The worlds Church we deny; for the true Church is the Body of Christ (Parnell 1655),
- (11) This deceiver has falsly said, we deny the Resurrection (Fuce 1659),
- (12) Those outward Forms and Ceremonies, which **we deny** and abhor, without exception (Roberts 1670).

Many of these examples come from the 'doctrinal dispute' group of texts in which the Quakers again and again describe their interpretation of their religious experiences of the Christian faith, refuting misunderstandings and objections by their opponents. One extract from the smaller sample of DENY in the passive form will have to suffice here, although the richness of the corpus findings certainly deserve more detailed scrutiny. The online *Oxford English Dictionary* (OED) gives several senses for this lexical item¹:

(13) And this I testifie that it is onely by grace that salvation is wrought, and not by any thing of mans own, for where grace is truly owned their self **is as truly denied** in all its willing & working; for when that is owned and joined to, which is Gods power, then all mans work which he has wrought, and all his fair buildings which he had framed in self, in his own power and wisdome, though glorious in appearance, yet all must be pulled down and an utter desolation must be known & witnessed of whatsoever hath been done out of the grace, out of the light, out of the life and power of God (Wight 1659, p. 2).

Sense 3a in the OED defines DENY as: 'to refuse to admit the truth of a doctrine or tenet', 4a has: 'to repudiate, disown, renounce, disavow'. An obsolete sense (#10) is defined as 'to refuse to accept'. These senses do match many of the occurrences in the corpus. The passive meaning is defined as 'to be rejected'. There are examples of this too, for example:

(14) Now seeing it is so, that the immediate Spirit of Christ, and its Immediate Revelation **is denied** by him; we demand of him, how he came to be a Minister, and whence he hath his Ability? (Burnyeate 1691).

A similar query on the headword ELECT—still in the conceptual field of non-Calvinism—retrieves 88 occurrences in 38 different publications in the corpus, including such authors as James Nayler, Edward Burrough, John Burnyeate and Dorothy White.

¹ The Oxford English Dictionary Online. (Oxford: OUP 2018)

(15) This is the Election, make him sure to your selves in life and death, so shall you be changed with him; and though you go down into the lower parts of the Earth in the carnal body, he shall raise you spiritual (Nayler 1661).

The present article can no more than provide a brief illustration of discourse corpus-analysis as a valuable starting point for interrogating text, as the above short examples demonstrate. Further work beckons. The final section in this part of the paper looks for indications of possible diachronic change of style as evidenced by the data.

2.7. Quaker Prophetic Style in the Corpus: 1650–1699

I wondered if there was any discernible change in style or rhetoric over the whole fifty-year period of the Quaker prophecy corpus. Moore (2000, p. 204), for example, describes the changes taking place in Quakerism from the 1660s onwards, especially in the context of the Second Day Morning Meeting's (SDMM) work (influential from 1673 onwards). The SDMM began its reviewing and editing work in 1673 and this had a major impact on the nature of the texts before and after that crucial date. We know that after 1672 there is a closer scrutiny by the Meeting of the published output, resulting in some convergence of style and message (Hagglund 2015, pp. 483–86). (Because of the importance of this watershed date for my research, I decided to clearly divide my corpus into two sub-corpora, with texts published before 1673 listed as Qcorpus1 and texts published after that date listed as Qcorpus1).

Moore (2000, p. 214) suggests there is a reduction in the stridency of tone between the styles of the pamphlets she has studied that were published during the first two periods (broadly speaking) of seventeenth-century English Quakers. She observes:

In the course of a few years, the Quaker movement changed from being one of the most radical of the sects that were looking for the coming of the Kingdom of God on earth, and became an introverted body, primarily concerned with its own internal life, while Quaker theological statements increasingly used the language of traditional Christianity (Moore 2000, p. 214).

Hall (1992, p. 82), in his careful study of the work of the SDMM, concludes that it was 'filtering out the irrational, fanatical, repetitive, illiterate or untruthful from the varied manuscripts submitted'. Moore (2012, p. 16) agrees that the SDMM's policy was to aim for submitted texts to contain less provocative language (Moore 2012, p. 16) and to reject any proposed publications, particularly 'apocalyptic prophecy which was seen as incompatible with the ethos of the times' (Moore 2012, p. 11). She also reports on her ongoing research of the historical situation between 1670 and 1700 when 'the urgent problem was to convince the authorities of Quaker theological respectability' (Moore 2012, p. 17). Barbour and Roberts agree (Barbour and Roberts 2004, p. 574), commenting that production of apocalyptic-related pamphlets gradually lessened over this later period, publication of such texts being at its highest in the 1650s. Other scholars note the earlier style, which they suggest was disappearing in the last quarter of the century: O'Malley (1982, p. 86) cites the 'aggressive prophetic material that had been produced in the 1650s' and Keeble (1995, pp. 121–22) describes the earlier text style as 'the assertiveness of Quaker discourse' with its preference for 'castigation and denunciation'. Bauman (1998, pp. 145–50) compares the earlier prophetic ministers that spoke (i.e., wrote) 'with vehement intensity, to the extent ... that they were frequently accused of "railing" ... The Lamb's War was not to be waged with restraint'. He summarises these changes as evidence of 'the routinisation of prophetic religion' and notes that by even the 1670s, 'all tone and action was to be moderated.'

A comparison of emotionally-charged language between prophetic texts before and after 1673 strengthens the impression of a less strident, forceful tone in many of the later tracts. (Barbour and Roberts 2004, p. 53, claim that the texts actually became more 'strident' between 1660 and 1673).

Figure 2 gives some examples, presented in concordance lines² that show the immediate context of high-frequency terms observed in the Quaker eschatological discourse: DARK, DESTROY, JUDGE, WICKED. All forms of these words are included in each headword.

N	Concordance
1	to leade all men by his Light, out of death, and darkness, which is not of God but is of the devill)
2	you live in, and plead for term of life; then shal darkness be your inheritance, and the reward of
3	also, yet to little purpose whilst they seek to destroy: the works of the Spirit: Nor doth Christ
4	thus saith the Lord, Wo unto the shepherds that destroy and scatter my flock, saith the Lord; ye
5	doth keep me alive in his light of life, from this destroying devouring generation of unreasonable
6	before you act any thing or judge, lest God judge you afterward, for be assured he will.
7	the Light of Christ is risen, and with it you are judged and condemned, and seen to be Enemies
8	eat you thorow as a Canker, and shal rise up in judgement against you. Howle ye proud Priests,
9	satisfie which you have spent in your pride, & wicked words and actions against the pure spirit
10	and in sincerity ; but he hides himself from the wicked and covetous priests and people, for that
11	but if you continue in your abominations and wickedness, and will not be allured by the tender
12	Fountain; yea Sodom came short of your wickedness, and the children of Gomorrha might
13	envying, cozening, cheating, and all manner of wickednesse, O you are shut out from the
14	he then sued us at the Law (which is double wickednesse in the sight of God, and will appear

Figure 2. Example concordances lines, in Qcorpus1 for: DARK, DESTROY, JUDGE, and WICKED.

Retrieval of exhortatory prophetic language used by many Quaker authors can be compared by relative percentage points across the two sub-corpora. The headwords investigated are: REPENT, WARN, REPROVE, INIQUITY, PLEAD, CURSE, PERISH, ACCUSE, TREMBLE, CONVINCE, PERSUADE, PUNISH, HOWL, and SHAKE (see Figure 3 below). All these lexical items are of relatively high frequency in the data. The histogram shows that occurrences of REPENT, already a favorite word, actually increase during the fourth quarter of the century. There is an overall decrease in occurrences except for the verbs CONVINCE, PERSUADE and SHAKE, and, in general, this colorful language is less evident in Qcorpus2, that is, post 1673. I therefore estimate a reduction of strength of the underlying force for expressions of urgent warning.

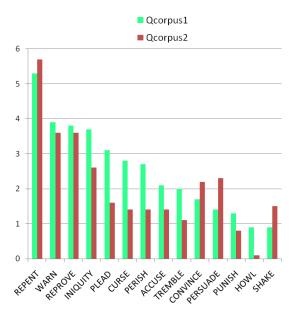


Figure 3. Comparison by relative percentage terms between high-frequency exhortatory language items in Qcorpus1 and Qcorpus2.

² See Section 3.3 for a description of the concordancer tool as it is used in computer-based investigations.

For the lexical item *woe*, only a quarter of the occurrences and its underlying pragmatic force of prophesying are found in the post-1673 sub-corpus. However, there is an increase in tracts entitled 'testimony' or 'declaration' as a type of preaching rhetoric. As the century came to a close, there were several extra-linguistic historical events both within the Quaker movement and in England in general. This resulted in an increase of a specific type of Quaker prophetic genre that I call 'spiritual counsel' as well as similar texts that relate their personal experience. There is one indication that the organisation of the emerging Quaker movement was starting to become more institutionalised (Bauman 1998, p. 137) towards the end of the seventeenth century. This is evident in the increasing frequency of formulaic phrases found in the texts. One of these contains the headword CLEAR, as in these little snippets:

- I have cleared my conscience/my self,
- for the **clearing** of my conscience/of truth,
- to clear that which was upon me.

These often occur as the closing phrases to published correspondence, termed 'open letters' by Green (2000, p. 413), texts that aim to persuade individuals or groups to repent and change their behaviour. The phrase with its variants expressed frustration at the lack of understanding on the part of the recipient and an expression of 'washing my hands' of the apparent sinfulness. More research into this and similar formulaic phrases both for the seventeenth century and into the eighteenth century could prove instructive. However, change is never clear-cut and there is a fuzzy boundary even after 1673. But change there is. This section concludes the presentation of research findings into early Quaker prophetic language. Section 3 describes the methodology and processes employed in this corpus-based approach to textual enquiries.

3. Corpus-Based Tools and Techniques Explained

Non-linguistics specialists may feel daunted by the unfamiliar terms and processes used in the interrogation of electronic texts through specific software. This section takes these readers through some straightforward explanations.

3.1. The Corpus-Based Approach to Textual Studies

This section introduces, describes and explains some of the available processes in a corpus-based enquiry. Certain technical terms and methods mentioned in the section on prophecy are covered in general terms. It first responds briefly to the question posed in the introduction regarding the benefits of carrying out quantitative linguistic analysis in text-based investigations.

There are arguments for and against relying on quantitative methods for research into discourse, literary criticism and other aspects of historical textual scholarship. The traditional, qualitative approach relies on close reading and detailed knowledge of the subject matter. Corpus research can complement that by providing objective grounds for intuitive and possibly biased or opinion-based arguments. It can also confirm, extend or refute declarative statements that are believed to be true but have never been tested. Often, qualitative research is perforce small-scale; corpus findings can scale up and then generalize from much larger samples of datasets. The type of research questions will be different compared to qualitative hypotheses, simply because of the way that data are interrogated. As the sections below will illustrate, search queries must be specific and language-based. Asking a dataset to find all the metaphors, for instance, will not work; questions must be formulated more precisely, often in an iterative progression. On the other hand, relatively small samples can lead to extravagant claims, an over-reliance on the raw results can mask the bigger picture, and the increasingly sophisticated software architecture can blind us to the content of the material under investigation. Increasingly, researchers are finding inspirational ways of combining the two approaches: traditional and quantitative. With these thoughts in mind, let us turn to the practicalities.

3.2. Representativeness

There are several competing approaches to the construction of a corpus that can be said to be representative of the language community or writers it aims to stand for. In order to claim, as I do, that there are distinctive features of Quaker language and discourse that are traceable throughout the canon of seventeenth-century Quaker texts regardless of the writer, the data must be as robust as possible in order to stand as representing that material. Some selection or exclusion is necessary within the general aim of randomness. The full corpus details are listed in the Appendix A.

Compilers of electronic corpora have differed over the advantages of sampling text extracts of equal size or of including full-text items regardless of size (see, for example, Sinclair 1991, p. 19; Biber 1993, p. 252; Meyer 2002, p. 44). The Quaker corpus contains both full texts and text extracts. I arrived at this compromise because of the large variation of full-text sizes available to me. The shortest text in Qcorpus1 has 602 words (Robeson 1662) and the shortest in Qcorpus2 is a London Yearly Meeting minute from 1696 containing just 428 words. The largest file, an outlier with 13,686 words, comes from Isaac Graye (1657). My findings are dependent on the confidence with which I can make generalizations from probabilistic data about the distinctiveness of early Quaker style and language, as well as the identification of certain typical features. My confidence is firmly based on the comprehensive variety of text types, sizes, authorships and dates that are the basis of the corpus. My collection is restricted to pamphlets and other printed holdings available at Friends House, London, in the Library of the Religious Society of Friends. In that way, I could be certain of verifying the artifacts at first hand in terms of edition and physical state of each copy. The transcriptions were laboriously made through a combination of keyboarding, scanning plus optical character recognition, and speech recognition. Texts already online and available could for the most part not be relied on for accuracy sadly, nor always for integrity of original spelling or punctuation.

The robustness of the findings supports my generalizations from probabilistic data about the distinctiveness of early Quaker style and language, as well as the identification of certain typical features. This is so both for the present study and other research I have published (see for example, Roads 2014, 2017b). My confidence is firmly based on the comprehensive variety of text types, sizes, authorships and dates that are the basis of my Quaker corpus.

3.3. Corpus-Based Techniques

Different software applications offer a range of tools for corpus-based analysis. The examples below are all derived from *Wordsmith Tools 5* (Scott 2008, *Liverpool: Lexical Analysis Software*) First, the ASCI files (sometimes called text files) containing the relevant texts must be loaded into the application. Then word lists can be generated either alphabetically or by frequency. Usually percentages are given (see Figure 4, right-hand column) for how frequent a word is across all the texts combined. Other statistical information is available but is not discussed here. Figure 4 below is a sample of a wordlist from the Quaker corpus, generated by descending order of frequency. It will be observed that the most frequent words are grammar words, not content (lexical) ones. This is typical of most corpora.

Individual words or short phrases can be used as search terms in the concordancer tool. This is also true if a grammatical part of speech is of interest, such as adjectives or interjections. Figure 5 shows selected concordances lines for the phrase *within and without*. The lines are sorted alphabetically in this case by the first word (in red) to the left of the key phrase, although other possibilities are available for using the sort function to search for patterns of use that might otherwise be hidden. This aids quantitative analysis in a different approach to the more usual close reading of a text that can produce qualitative findings.

	Word	Freq.	%
1	THE	26,311	6.47
2	AND	22,563	5.55
3	OF	15,547	3.83
4	TO	11,143	2.74
5	IN	9,800	2.41
6	THAT	7,712	1.90
7	IS	6,047	1.49
8	YOU	5,860	1.44
9	FOR	4,737	1.17
10	NOT	4,256	1.05
11	BE	4,199	1.03
12	WHICH	3,832	0.94
13	А	3,830	0.94
14	IT	3,527	0.87
15	HIS	3,500	0.86
16	GOD	3,349	0.82

Figure 4. Wordlist generated from the Quaker corpus showing the top 16 ranked frequency items.

N	Concordance
1	all manner of Spirits and Evils, Assaults within and without, with fears and dread,
2	he will work on your behalf within and without : Sing and rejoyce ye
3	that defileth the whole body within and without: So the man or
4	resisted in all his Appearances, both within and without; for this you shall find
5	may multiply a blessing upon you, both within and without. Thus have I cleared
6	Faithful, and Everlasting Witness, both within and without, are dead while they
7	within, but trouble on every side, fears within and without, and thou seest sin
8	things, (the many things) that offend (within and without you:) and this is the

Figure 5. Showing concordance lines for the phrase: within and without, sorted by 1st left.

By searching on a 'keyword' or phrase, it is possible to produce a list of all occurrences of that item, with a small amount of co-text, normally a certain number of words or characters (determined by specific research needs), either side of the central item. As Figure 6 shows, variant spellings can be accommodated. Figures 6 and 7 present two examples of concordancer output (another chance too, to inspect examples of the node word DENY). In Figure 6, collocating words to the 1st left are shown in red. In Figure 7, the second order sort shows collocations in green to the 1st left of the node column; the SET column on the far right is used to code for L (=literal sense) and F (=figurative sense).

Words or phrases collocating with the node item are thrown into sharp relief visually and nuances more easily detected. The visible co-text of each line can be increased to suit the research aim and it is also possible to locate and visit the full textual source of each line within the corpus.

🕫 Concord	
File Edit View Compute Settings Window Help	
N Concordance	Set a(▲
49 is another of thy lies, for the Ministers of the Letter is denyed by them, which thou in scorn calls Quakers,	denyed
50 not that the manifestation from the Spirit of truth is denyed, for whatsoever is manifested or revealed to the	e denyed
51 ground for them that minister to imitate or practise, is denied, for had it been so, it would have been a	denied
52 callst Quakers; but their condition and thy condition is denyed with the spirit of truth. And thou saist, they	denyed
53 of God and the end for which Christ was sent is denied, yea, and more power attributed to the Devil,	denied
54 Chaff he will burn with Fire unquenchable. And John denied not, and said, He was not that Light, but he	denied
55 in that unclean spirit, to which thou wast joyned) denied thee, and that spirit and thou so continuing, we	denied
56 feeds all your wisdom, is with the spirit of the Lord denied, who are in the confounded language of Babel,	denied
57 his rest in things on earth, who is rejected of men, denyed of his own kindred, and forsaken of all; and as	denyed
58 an account thou didst accept my service, though men denied it; and thou gavest into my bosom a double	denied
59 , nor come to the knowledge of God; nor denied your selves and sins , and you may be	denied
60 whose obedience and spiritual worship many have not denyed nor declined, neither under the trials which	denyed
61 until their steps take hold on Hell; for they have openly denied the true light, as is hereafter mentioned, and	denied
62 visible World, I was rejected of men, for my Parents denied me a birth ; and as concerning self, had been	denied
63 producing their Law for it, John 19.7. Pilate denyed them to give Judgment in that case, John	denyed
64 then were he not risen; so in effect he hath plainly denied the Resurrection, but if thousands should deny	denied
65 being a filthy thing then ruling in her, Hum: Smith denied it and her words, but whereas he was falsly	denied
66 to declare why Tythes have been, and are by me still denyed; in which Grounds I have made an eminent	denyed
67 but stumbled at the stumbling stone: now ye that denied that Christ hath enlightened all men with a light	denied
68 times, and was not their Practice ; And because they denied them, therefore were they hated of the Jews,	denied
69 Strangers, and Fatherlesse : And the Christians they denied the Jews Priesthood, and the Tithes, which	denied
70 And in the dayes of Queen Elizabeth they denyed the Mass-Book, and again received the Book	denyed
71 Quakers) was not received by any of them (for they denied both him and his Gift) W. B. further explaining	denied
72 And afterward in the time of Queen Mary they denyed the Common-Prayer-Book, and received the	denyed
they ordered Outward things among them; and Tithes denyed, Heb.7. that there was no lack, nor a Beggar	denyed
74 for where arace is truly owned their self is as truly denied in all its willing & working: for when that is	denied
concordance collocates plot patterns clusters filenames follow up source text notes	
79 Set	
	//

Figure 6. Illustrative concordance lines for both node spelling variants denied and denyed.

	Conc	ord												_ 🗆	X
Eik	e <u>E</u> dit	t <u>V</u> iew	Compute	<u>S</u> ettings	<u>W</u> indow	<u>H</u> elp									
	N	Concor	dance											et	ag
	1	Be	dford ca	me into Jo	hn Cran	wells lan	id, and to	ok 4 Lambs	without I	eave, an	nd sent his	s men for [:]	Tithe Wool at	L	
	2	Curat	es to get	money? E)id they e	ver Sue	e any mar	n for Lambs	, Piggs, I	Hens, or	Geese?	Did they e	ver hale any	L	
	3	On	e hundre	d and an I	nalfe of H	ops. Tw	enty and	one Lambs	. Three S	Sheep. F	ive calves	s. Thirty ho	ogs and pigs.	L	- I
	4	here	e, and to t	ake their	Corn, Ha	y, Flax,	Hemp, W	lool, Lambs	, Foals, C	Calves, y	/ea Cows	and Oxen	from the	L	- I
	5	sh	orn (he b	eing but \	/icar, hav	/ing the	tithe of w	ooll, lambs,	calves, a	apples, p	olumbs, &	c.) unto wl	nich he gave	L	
	6	and I	Banishme	ent, Excon	nmunicati	ng of th	e Saints,	and Lambs	, Servant	s, and C	Children o	f God, whi	ch the Lord	F	
	7		ye Hir	eling-She	oherds: H	lave you	u brought	any Lambs	to Christ	s Fold?	Have ye l	brought ar	iy of your	F	
	8	To	mlinson. T	They are v	ery conf	ident, w	ho kill Ch	rists Lambs	, to do G	od servi	ce, that th	ose they l	cill are not his	F	
	9	wher	nce every	good and	l perfect	gift com	es. And o	dear Lambs	, althougl	h some (of you be	, in your o	wn eyes, the	F	- 1
	10	and	safe kee	p ye in the	e day whi	ch is ha	isting. O o	dear Lambs	, lift up y	our head	ds and rej	oice, for t	he glorious	F	
	11	I	breath is	in his nos	trils, but f	fear the	Lord ye o	dear lambs	and babe	es of the	heavenly	father, Th	is is my	F	- 1
	12	an	d blessing	g, World v	vithout er	id, Ame	n. So all o	dear Lambs	dwell wit	h the Lo	rd, that y	ou may at	all times walk	F	- 1
	13	is re	evealing a	nd manife	esting it se	elf, there	efore ye o	dear lambs	and babe	es of the	heavenly	Father, w	hom God	F	
	14	Lights	appeara	ince in the	Truth to	all the p	precious o	dear Lambs	of the Li	fe Dark	vanished,	Light shir	ies forth : Set	F	- 1
	15	Li	ght shine	s forth : S	et forth b	y Sarał	n Iones. D	Dear Lambs	, whom th	ne Fathe	er hath vis	ited with h	is eternal	F	- I
	16		killed a	and scand	alized the	e Innoce	ent, harml	ess, Lambs	of Christ	t so it is	evident th	iat ye are	members of	F	
•															
<u> </u>				olot natt	arne clue	tore filo	names fol		ce text inc	tee					
_			ollocates					low up sour							
16	S	et il	ied him als	o, that so th	ne inherita	nce migh	t be theirs.) First then, A	are you La	mos, as ti	ne true Min	isters of Ch	rist were, verse	the th	n //

Figure 7. Concordance lines for lambs, and illustrating the use of the 'SET' column.

3.4. Collocations

A search on the keyword *power* retrieves a number of words that appear frequently as co-text, for instance: *dark power, false power*. Positive senses include *eternal power, pure power*. The same method searching on *spirit* and *spirits* brings up instances of *envious spirits* but also *heavenly spirit*. Table 3 shows both these sets of findings.

	Negative Collocations	Positive Collocations
power	dark, condemning, cursed, destroying, Devil's, earthly, false, Satan's, wicked.	eternal, living, pure, higher, invisible, just, mighty, pure, righteous, spreading, unalterable, unlimited.
<i>spirit(s)</i> [several meanings of spirit]	damned, envious, false, fiery, frothy, idolatrous, malicious, prejudiced, ranting, self-exalting, unclean, unsavoury.	able, heavenly, holy, pure.

Table 3. Results of search queries of collocations relating to the items power and spirit(s).

3.5. Using the Corpus-Based Approach—Some Techniques

A certain amount of learning faces a researcher the first time they consider trying the corpus-based approach. Used effectively, new findings become possible through the discovery of patterns of use or (in)frequency of linguistic features. Comparisons can be made with other collections of text or even just two single texts, depending on the research questions. However, there are limitations to the approach and creativity has to be applied in order to choose the right search terms of the corpus that has been loaded into the software. The search terms have to be precise so there is no point in interrogating a corpus for, say, all sarcastic comments in general, or choosing too specific a phrase. A key Quaker phrase, much used by Friends in the present-day is *that of God*. However, a richer seam is tapped if a close reading is made before performing a search. Paraphrases such as *something of God* or *within me/you/thee* may suggest breaking down a concept into a range of syntax and vocabulary.

A second difficulty arises in making comparisons. Is the comparison valid? Are the texts similar enough that differences are significant? The discourse purposes of the comparison corpus or corpora need to be close or the results will be meaningless. For example, I consulted the *Corpus of English Religious Prose (COERP)* as a possible comparator to my full *Quaker Historical Corpus (QHC)* but discovered that mainstream 'religious' texts comprise sermons, treatises and instructional material such as catechisms. Much early Quaker published work (pamphlets, prose broadsides and tracts) is polemical; only a relatively small proportion of the Quaker corpus covers what I term 'spiritual counsel', sermons, for example. The *COERP* could serve for simple word frequencies but I found it to be of limited use for anything more introspective. Similarly, comparing seventeenth-century Quaker texts and present-day writing by Friends (for example using a version of *Quaker Faith and Practice*, Britain Yearly Meeting, as a corpus) will produce findings, certainly, but those results may not tell us much that could serve as reliable generalizations³. Again, the formulation of good research questions is crucial.

There are two technical aspects to be considered before plunging into the world of corpus linguistics. The first is the benefit of acquiring a reasonable knowledge of English grammar and syntax terms and concepts. This is important when pursuing search queries or in avoiding errors that might wreck the validity of the results. A very readable grammar book such as the (corpus-derived) *Longman Student Grammar* (Biber et al. 2002) would make a good source of support.

The second aspect is more problematical and it concerns the statistical interpretation of findings. Many corpus linguists provide a range of quantitative measurements in their studies, and the range of software such as *Wordsmith Tools, Lancsbox*, or *AntConc* (see bibliography for details) are tempting to use in one's observations. If a Quaker studies researcher is willing to fully understand the statistical findings on offer that is good, but students for example have been known to come to unsafe conclusions based on poor understanding of these methods. Quaker research studies, especially for historical texts are likely to be working with comparatively small datasets. It is important not to over-generalize quantitative findings from small samples. In my view, statistical findings are not essential in our field

³ Quaker Faith and Practice, 5th ed. The Yearly Meeting of the Religious Society of Friends in Britain. (Oxford 2013)

unless researchers are very sure of their ground. My own experience is to make good use of two simple quantitative tools. The first, essential one if making comparisons between corpora of different sizes, is to 'norm' the raw data; that is to say, to perform a calculation that scales up the scores to per 1000 words or 10,000 words. This is done by dividing the raw score by the total word-count of the corpus or the individual text, and multiplying this by a certain number of words such as 100,000. The comparisons will then be meaningful even if the two or more datasets are of different sizes. The second tool that can make sense of quantitative findings is that of ratio. In Section 2.4, we compared certain positive and negative connotations. This can usefully be displayed graphically, as in Figure 8. The left-hand chart refers to findings in *Qsub-corpus1* and the right-hand chart refers to findings in *Qsub-corpus2*.

We have now looked at issues and practicalities for any scholar considering embarking on combining the broad academic disciplines of religion and corpus analysis. In the final part of this paper, we go wider and discuss some implications of such an integrated approach.

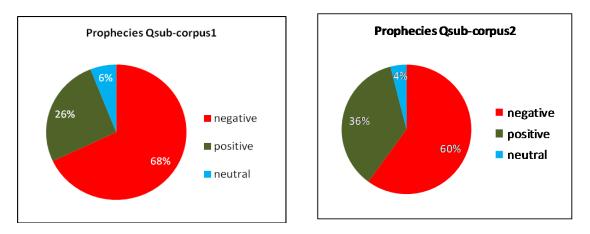


Figure 8. Positive and negative connotations comparing two datasets of Quaker prophetic writings.

4. Quaker Studies and Corpus Linguistics as Integrated Study

The final part of this paper is a meta-reflection on the original research approach in our first part which then looks more widely at the nature of this innovation, bringing out some of the potential challenges contained within it.

4.1. Issues in Interdisciplinary Research

Quaker studies has become a welcoming, broad discipline, open to many academic approaches. We first look at some of the issues regarding interdisciplinary research (henceforth IDR) in general before drilling down into our particular specialism. There is increasing recognition that academic disciplines benefit from a little cross-fertilization such as IDR provides. First, though, I will try to differentiate between interdisciplinary and multidisciplinary. Definitions are hard to come by but for the purpose of the present paper, I suggest that multidisciplinary implies scholars from different disciplines collaborating by drawing on their own knowledge and method base. Conversely, the key word for interdisciplinary research is 'integration' combining knowledge and methods from different disciplines, using a synthesis of approaches in such a way that the resulting findings could not be separated out but stand as a new set of insights. There is room in the field of Quaker studies for both approaches. The advantages and challenges are present in both. No longer need scholars work alone in their own watertight silos. Instead, there can be advantages in looking at ideas or methods that seem more at home in other seemingly unrelated disciplines. My own line of work straddles exactly this sort of boundary. My subject home is located in the natural language usage found in historical Quaker writings; however, my work sits somewhat at a tangent to theology, social science, history or literary criticism. This can make for miscommunication with colleagues who believe someone working

in one aspect of Quaker studies to be more of an expert in these types of related fields than is the case. A special case of IDR is the domain of digital humanities, where scholars working in a variety of humanities research require an understanding of basic elements of computer manipulation of data, including keeping abreast of software applications, and techniques such as text annotating, processing and mining (and, indeed, what those terms even mean). Such colleagues, as Gardiner and Musto (2015) observe, will increasingly be aware of how such digital concepts may impact various branches of the humanities in terms of innovative approaches to traditional disciplinary thought. The danger to be avoided in this kind of collaboration is the tendency to 'us' and 'them': IT specialists versus 'pure' humanities researchers (Gardiner and Musto 2015, pp. 166–68).

Coming closer to the area of the research described in Sections 1 and 2 of the present paper, I offer two examples of work that specifically integrates religion and linguistics. The first uses methods from corpus linguistics and critical discourse analysis to examine patterns of representation around the word *Muslim* in a large corpus of British newspaper articles. Both the methodology and the results of this study would be of interest to members of several academic communities, including religions, interfaith studies, media studies and linguistics (see Baker et al. (2013)).

In the field of historical religious thought, Kohnen et al. (2011) report findings from a study investigating early modern English religious prose as a 'conservative language variety resistant to language change and linguistic innovation'. They apply quantitative analytical methods using the corpus previously referred to in Section 3.5 to compare religious language with the standard language variety used in all written genres of the period. Although they claim this to be in the evolving tradition of IDR, their work is firmly located within the discipline of corpus linguistics and, I suggest, should be evaluated as such.

These and other examples raise the question, and, indeed, challenge, of evaluating interdisciplinary studies. Strang and McLeish put forward a convincing argument for meeting these challenges (Strang and McLeish 2015). They insist that:

IDR is foundational rather than merely additive to academic practice and can contribute usefully to discipline-based research as well. Its value lies in this potential as much as in its capacity to address complex problems and to integrate research creatively. Evaluating IDR encounters difficulties when approaches based in single disciplines are applied to it. It requires fresh criteria, developed within an interdisciplinary context (Strang and McLeish 2015, p. 3).

They believe that this (not so new) approach deserves either fresh outlets for publication that 'value and recognise high quality IDR' or that existing publications be prepared to accept the challenge on behalf of their readership. Perhaps the publication in which the present paper appears is one such innovative vehicle. Strang and McLeish (2015, p. 4) accept that much IDR derives from collaboration between academics from different disciplines, but the reality also includes individual scholars who are able to straddle more than one in order to go beyond their main area of expertise and draw on methods or theories from elsewhere.

4.2. Practical Aspects of IDR

A word should be said now about the practicalities of dealing with two or more sets of conventions in the world of cross-discipline research. Here, the field is still relatively in its infancy in a number of humanities disciplines (two example studies involving religion are: Wiist et al. 2010; Payne 2015). Publishers, editors, funders and examiners who may be well-trained and even distinguished in one discipline sometimes display discomfort in accepting academic or editorial conventions required from another discipline. Findings from a 2016 study by the *British Academy for the Humanities and Social Sciences* on the variety of academic situations that can result in IDR nevertheless cite advantages to embarking on such ventures (British Academy for Humanities and Social Sciences 2016). These include the cross-fertilisation of scholars learning and applying methods from unfamiliar disciplines, and collaboration between colleagues working in different and, on the surface, unlikely disciplines but where both sets are searching for areas of common interest. The emergence of disciplines such as digital humanities have implications for new blends of approaches in many other fields.

However, the report notes that the one serious barrier to encouraging such work is that of reliable evaluation, as observed by Strang and McLeish (2015). This can lead to a diminishing of the value of IDR in the wider academic community. Clearly, this is not a reason from walking away from attempts. As we have seen, there is validity in facing the challenges, both in how such studies can be reliably evaluated and how policy-makers can influence funders. A very practical book offering detailed advice for any early career scholars contemplating the IDR route is that by Lyall et al. (2011). Somewhat quirky chapter headings include: 'Planning the Expedition', 'Charting a Course for an Interdisciplinary Career' and 'Navigating the Interdisciplinary Landscape'.

This brings me back full circle to my own research into discourse analysis of early Quaker prophesying using corpus-based methods. I trust there is something new here for anyone working in the broad reach of the Quaker studies field. What interest, however, might there be for my fellow linguists (corpus-based or not)? In that parallel world, the focus is frequently on theoretical issues connected to fields such as style, syntax, pragmatics, socio-linguistics, lexis, semantics or discourse. All of those rely on scientific analysis into either present-day or historical language, focusing on synchronic findings (across the same time period) or diachronic (looking at change over time). Computational linguistics goes even further into the scientific realm by developing and testing new methods of digitally-based investigations into areas such as big data, obscure data or more sophisticated methods of automatic retrieval of language-based output.

So what then are the implications of the present paper for both applied linguists (looking at the discourse of persuasion, stance and hidden attitudes, socio-linguistics, for example), and also for those with no direct interest in language *per se*? There are two strands to this answer. Firstly, the findings on early Quaker prophecy presented above. My findings indicate that a Quaker perspective on the apocalypse, based on the *Book of Revelation* as well as their own primary experience, is unduly (and erroneously?) pessimistic in its urgent warning. For many pamphleteers of the time, there was less joy in their message than literal 'doom and gloom'. This argument has not been put forward elsewhere, to my knowledge. It should be of interest to scholars working in the early modern field of Christianity, dissent, doctrinal disputing and allied disciplines. It contextualizes Biblical studies, radicalism and the struggle of religious minorities, among other possibilities. The topic crosses over into wider academic fields of study such as print culture generally, and pamphleteering and the production and dissemination of early broadsides more particularly.

Secondly, a feature of my study that relates to other historical enquiries is that the corpus data derive largely from the social phenomenon known academically today as 'from below'. This is comparable to the description in 1654 by the Quaker Richard Hubberthorne of his new community of Friends as 'the under sort of people' (in The Mittimus Answered, quoted by Moore 2000, p. 64). We might say that such writers were producing the equivalent of today's 'blogs'. In other words, we are now hearing voices of the mass of ordinary people previously in danger of being ignored by historians working from sources more focused on the public picture. I can illustrate this with reference to two twenty-first century publications concerned with early Quaker thought. Gwyn (2015, pp. 204–207) reaches for just three key Quaker writers (George Fox, James Nayler and Margaret Fell) when constructing his four-page summary of early Quaker eschatology as he interprets it. Moore (2000) has performed close-reading on many more texts (but from 1649–1666 only). Many of those do feature in my own corpus. However, even here she only refers to fourteen sources in her chapter on The Kingdom of the Lord, including Fox, Farnworth, Nayler, Howgill, Dewsbury, (Moore 2000, pp. 60–74). My own approach examines nearly 200 writers and covers half a century of published texts. The corpus-based approach enables non-linguists to gain much more extensive pictures and patterning as a way of empirically validating, extending or even contradicting the knowledge already put forward by close reading of a restricted range of texts.

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A further example of fruitful collaboration with a scholar from another field is the conference paper given in 2016 on the early Quaker approach to knowledge and learning (Gill and Roads 2016). This integrated literary criticism through the perspective of digital corpus analysis, involving a creative sharing of our different disciplinary approaches. The paper provided a novel perspective for conference attenders coming from historical and theological backgrounds, and unused to the ways of corpus linguistics.

4.3. Concluding Remarks: Drawing Together the Threads

This article has addressed three distinctive areas of research. The first part presented a fine-grained enquiry into the language of early Quaker prophecy, leading to new insights into how this discourse was realized linguistically by a large number Quaker writers in the seventeenth century, and how their approach and sense of urgency compared to an important source for them: the Book of Revelation in the Bible. The ability to scale up the findings on which to base these generalizations about Quakerism stems from the nature of simple quantitative corpus techniques. The second part unpacked some of the specialist terms, techniques and tools used in the non-related discipline of corpus studies, and showed how these may be applied to aspects of text-based study which have so far received little attention in the Quaker Studies field. In the third part, we looked more widely at the nature of IDR and the implications for embarking on, evaluating and publishing such research. Some areas of academia have been combinning and integrating approaches for many years now, paving the way for minds to be opened to new combinations of disciplines. My own subjective impression is that the field of religious studies has yet to catch up and embrace such innovations but there is much to look forward to in the coming decades. Who knows what this diversity of approach and method can reveal? Only time and confidence can break down old barriers.

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Conflicts of Interest: The author declares no conflicts of interest.

Appendix A

Source texts comprising the Quaker historical corpora.

Qcorpus1

Bolton John.	1667–8.	Judas his thirty pieces not received. Wing B3506.
Crook John J.C.	1667.	Twenty cases of conscience propounded. Wing C7224.
Fox, George.	1658.	To all friends and people in the whole Christendome. Wing F1848.
Abbott, Margaret.	1659.	A testimony against the false teachers. Wing A70A.
Addam, Simon.	1663.	Concerning the observation. Wing A419A.
Aldam, Thomas et al.	1652.	False prophets and false teachers described. Wing A894BA.
Ames, William.	1656.	A declaration of the witness of God. Wing A3004A.
Anderdon, John.	1659.	To those that sit in counsel. Wing A3083.
Anon.	1658.	To the generals, and captains, officers and souldiers. Wing T1936.
Aynsloe, John.	1664.	A Besome of truth to sweep away the refuge of lyes. Wing A4293.
Bacon, Christopher.	1662.	A trumpet sounding an alarvm. Wing B266A.
B., D. [Baker, Daniel].	1659.	A certaine warning from a naked heart. Wing B481.
Bayly, William.	1662.	Jacob is become a flame. Wing B1535.
Biddle, Esther).	166	Wo to thee town of Cambridge. Wing B2866A.
Blackborow, Sarah.	1658.	A visit to the spirit in prison. Wing B3065.
Boulbie Judith.	1665.	A testimony for truth against all hireling-priests and deceivers. Wing B3828.
Boulbie, Judith.	1667.	To all justices of peace, or other magistrates. Wing B3828A.
Bradly, Richard.	1660.	This is for all you the inhabitants of Whitewell to consider. Wing B4125A.
Brend, William.	1664	Oh ye magistrates in and about this city of London. Wing B4359A.
Britten, William.	1660.	Silent meeting, a wonder to the world. Wing B4825.
Britten, William.	1669.	Concerning the kingdoms of God and men with their dimentions. Wing B4824.
Burrough, Edward.	1657a.	A declaration to all the world of our faith. Wing B5997.

Burrough, Edward.	1657b.	To you that are called Anabaptists. Wing B6042.
C., J.	1658.	The vvord of the Lord to awaken. Wing C78.
Caton, William.	1659.	The moderate enquirer resolved. Wing C1515A.
Caton, William.	1661.	An abridgement or a compendious commemoration. Wing E3419.
Chandler, John.	1659.	A narrative plainly shewing priest of England. Wing C1927B.
Clark, Thomas.	1661.	<i>The voice of truth, uttered forth against the unreasonablenes.</i> Wing C4562A.
Clayton, Anne.	1660.	A letter to the king. Wing C4608B.
Cleevelye, William.	1667.	The deceitful spirit discovered. Wing C4625A.
Crisp, Stephen.	1666.	A word in due season, or, Some harvest meditations. Wing C6944.
Crisp Stephen.	1668.	A plain path-way opened to the simple-hearted for the answering of all doubts and objections. Wing C6938.
Crook, John et al.	1661.	Liberty of conscience asserted. Wing W1890.
[D.T.] Davenport, Thomas.	1659.	This for the Parliament, counsel, and the officers. Wing D373.
Dewsbury, William.	1660.	To all nations, kindreds, languages, tongues. Wing D1274.
Dewsbury William.	1668.	A general epistle given forth from the spirit of the Lord. Wing D1269.
Evans, Katharine.	1663.	A brief discovery of God's eternal truth. Wing E3453.
F. B.	1660.	To all that observe dayes. Wing B64.
Fell Christopher, Howgill F, Woodrove T.,	1655.	A few words to the people of England, who have had a day of visitation. Wing F840.
Fell, Margaret.	1660.	A declaration and an information from us the people. Wing F628.
Fisher, Samuel.	1656.	The scorned Quaker's second account of his second attempt. Wing F1057.
Forster, Mary.	1669	A declaration of the bountifull loving-kindness of the Lord. Wing F1603.
Forster Thomas.	1658.	A winding-sheet for Englands ministry. Wing F1637.
Fox, George.	1656.	The woman learning in silence. Wing F1772.
Fox, George.	1657.	A testimony of the true light of the world. Wing F1929.
Fox, Margaret.	1659.	To the general councel, and officers of the army. Wing F638C.
Fuce, Joseph.	1659.	The fall of a great visible idol. Wing F2257A.
-		The three countrey-mens English answers to the Clergy-mens Latine charges. Wing
Gearle, Edmund.	1664.	T1085.
Gibson, Thomas.	1665.	Something offered to the consideration An act to prevent and suppress. Wing G678.
Gill, Henry.	1658.	A warning and visitation to the inhabitants of Godalming. Wing G724A.
Gilman, Anne.	1663.	To the inhabitants of the earth. Wing G768A.
Gotherson, Daniel.	1660.	An alarm to all priests, judges, magistrates. Wing G1351.
Gotherson, Dorothea.	1661.	To all that are unregenerated, a call to repentance. Wing G1352.
Graye, Isaac.	1657.	One out-cry more against tythes unto the chief ruler. Wing G1626.
Green, William.	1661.	Good council and advice unto all professors. Wing G1812A.
Harwood, John.	1655.	A warning from the Lord to the city of Oxford. Wing H1104A.
Hickock, Richard.	1660.	The saints justified and their accusers found out. Wing H1917A.
Holder, Christopher.	1670.	The faith and testimony of the martyrs. Wing H2384.
Hookes Ellis (E.H.) &	1665.	The spirit of the martyrs is risen and the spirit of the old persecutor. Wing H2663.
T.R.	1005.	The spirit of the marry is is riser and the spirit of the but persecutor. Wing 112005.
Howard, Luke.	1659.	The Devils bow unstringed. Wing H2984A.
Howgill Mary.	1662.	The vision of the Lord of Hosts. Wing H3192.
Howgill, Francis.	1657.	To all you commanders and officers of the army in Scotland. Wing H3183.
Howgill, Francis & Burrough, Edward.	1655.	We the servants and faithfull witnesses of the most high God. Wing B6057A.
Hubberthorn, Richard.	1659.	A word of wisdom and counsel to the officers and souldiers. Wing H3242.
Iones, Sarah.	1650.	This is lights appearance in the truth to all the precious dear lambs. Wing J989.
Killam, Margaret & Pattison, Barbara.	1656.	A warning from the Lord to the teachers & people of Plymovth. Wing K473.
Mason, Martin.	1660.	A faithful warning with good advice from Israel's God. Wing M928.
M., R.	1660–9.	A word to the royalists, or cavelier. Wing M78A.
Maylins, Robert.	1661.	A letter which was delivered to the King on the second day of the second moneth 1660, sent from the Barbadoes. Wing M1447.
Mellidge, Anthony.	1659.	Winchester Prison the 21th day of the 1 month, 59. Wing M1647B.
Moon, John.	1658.	<i>The true light which shines.</i> Wing M2527.
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Nayler, James & T., W.	1659.	<i>O England, thy time has come</i> . Smith 2.574.
Naylor, James.	1661.	Milk for babes: and meat for strong men. Wing N300.
Nicholson, B.	1655.	Truths defence against lies. Wing P387.
Norton, Humphrey.	1659.	To all people that speakes of an outward baptisme. Wing N1312A
Parker, Alexander.	1660.	An epistle to Friends. Wing P381.
Parnell, James.	1655.	A shield of the truth. Wing P532A.
Penington, saac.	1660.	Some few queries and considerations proposed to the Cavaliers, being of weighty
Doninaton Isaaa	1771	importance to them. Wing P1194. Concerning the worship of the living God. Wing P1159.
Penington, Isaac.	1661.	Concerning the worship of the north Goa. Wing F 1159. Copies of some few papers given into the House of Parliament in the time of Iames
Rich, Robert, Fox, George et al.	1657.	Naylers tryal there. Wing C6080A.
Rigge, Ambrose.	1659.	To all the hireling priests in England. Wing R1494.
Roberts, Gerard.	1670.	Impudency and ranterism rebuked. Wing R1597.
Robertson, Thomas.	1658.	A horrible thing committed in this land. Wing R1609.
Robeson, Andrew.	1662.	A word of pitty to the prophane. Wing R1623.
Rofe, George.	1661.	A true believer's testimony of the work of true faith. Wing R1790.
Rofe, George.	1661.	Cherubims, cherubims. Wing R1784.
Rogers, Lewis.	1663.	Here is something following of a vision. Wing R1819.
Rous, John.	1656.	A warning to the inhabitants of Barbadoes. Wing R204.
Salthouse, Thomas.	1657.	An epistle to the churches of the Anabaptists. Wing S472.
Scostrop, Richard.	1661.	A vvord from the Lord to the rulers and inhabitants. Wing S940.
Simmonds, Martha &	1001.	11 000ru jioni the Loru to the ruleis and inductions. While 0540.
Stranger, Hannah.	1659.	<i>O England, thy time has come.</i> Smith/2.574.
Simonds, Thomas.	1656.	The voyce of the just uttered. Wing S3824.
Simpson, Richard.	1661.	A brief relation of some of the unjust sufferings of Richard Simpson. Wing S3819.
Simpson, William.	1660.	Going naked a signe. Wing S3845.
Smith, Humphrey.	1659.	Concerning tithes. Wing S4054.
Smith, Humphrey.	1659.	The defence of Humphery Smith, Anthony Melledge. Wing S4056.
Smith, Mary.	1667.	These few lines are to all such as have an hand. Wing S4130.
Smith, William.	1669.	A few words unto a particular people. Wing S4302.
Stockdale, William.	1659.	The doctrines and principles: the persecution. Wing W1191.
Stoddard, Amos et al.	1655.	Something written in answer to a lying scandalous book. Wing S5707.
Strutt, James.	1659.	A declaration to the whole world. Wing S6017.
Swinton, John.	1663.	A testimony from the Lord. Wing S6287.
Swinton, John.	1664.	Heaven and earth, sea and dry land. Wing S6284.
Taylor, Christopher, et al.	1655.	Certain papers which is the word of the Lord. Wing T260.
Thornton, Samuel.	1670.	A tender salutation to the seed. Wing T1060.
Turner, Robert.	1658.	Truths defence. Wing T3333.
T., W.	1660.	An exhortation to those that have separated themselves. Wing T1854.
Vokins, Joan.	1671.	A loving advertisement unto all those who joyn. Wing V686.
M.W. [Watkins, Morgan].	1665.	Very many hath been the testimonies of truth. Wing W1071.
Waters, Margaret.	1670.	A warning from the Lord to the inhabitants of this earth. Wing W1058.
Watkinson, George.	1661.	A warning to the inhabitants of the earth. Wing W1078.
Web, Christian.	1659.	A warning to all such who are making a profession of God. Wing W1196.
Web, Mary.	1659.	I being moved of the Lord. Wing W1205.
West, Robert.	1668.	A discovery of Sathan. Wing W1388.
West, Thomas.	1664.	The word of God to all the elect number. Wing W1392.
White, Dorothy.	1660.	Unto all Gods host in England. Wing W1757.
White, Dorothy.	1661.	A lamentation unto this nation. Wing W175.
Whitehead, Ann.	1670.	For the King and both houses of Parliament. Wing W1884.
Whitehead, George.	1660.	A brief account of the illegal proceedings. Wing W1895.
Whitehead, George.	1665.	This is an epistle for the remnant of Friends. Wing W1963.
Wight, Thomas.	1659.	Vnto those people who are called Baptists. Wing W2109.
Wilkinson, Bryan.	1659.	To the present authority of Parliament. Wing W2217.
Wills, Daniel.	1662.	A few quaeries to Simon Ford priest. Wing W2864.
Willyer, Lawrence.	1658.	<i>O inhabitants of the earth, hear the word of the Lord.</i> Wing W2882.
Wollrich, Humphry.	1659.	A plaine, and good advice to the Parliament-men. Wing W3297.

Wollrich, Humphry.	1661.	To all Presbiterian ministers, who own themselves. Wing W3300.
Zachary, Thomas.	1660.	A word to all those who have bin convinced of the truth. Wing Z3.
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Wright, Ed, Grove, Jos, Pilgrime, Tho.	1696.	A short account of the manifest hand of God. Wing S3540.
Anon.	1698.	Something concerning Agbarus. Wing S4655.
Barclay, Robert.	1676.	The anarchy of the ranters, and other libertines. Wing B718.
Bathhurst, Charles et al.	1695.	Truth vindicated, by the faithful. Wing B1137.
Beck, Sarah.	1680.	A certain and true relation of the heavenly enjoyments. Wing 1686A.
Bingley, William.	1690.	A faithful warning once more to the inhabitants. Wing B2919.
Bourne, Edward.	1679.	A few words to those who look for another dispensation. Wing B3846B.
Bourne, Edward.	1682.	An epistle to Friends. Wing B3846A.
Briggins, Joseph.	1677.	The living words of a dying child. Wing B4661.
Briggs, Thomas.	1685.	An account of some of the travels and sufferings. Wing B4665.
Browne, John.	1678.	In the eleaventh moneth, on the nineth day. Wing B5120A.
Burnyeat, J. & Watson, J.	1688.	The holy truth and its professors defended. Wing B5966.
Burnyeat, Philip et al.	1691.	"Truth Exalted", Cumberland & London testimonies to John Burnyeate. Wing B5968.
Coleman, Nathaniel.	1682.	An epistle to be in the assemblages of Gods people. Wing C5047.
Collens, John.	1685.	A lamentation taken up for the churchs of the Anabaptists. Wing C5232.
Danks, John & Elizabeth, and Furly, J.	1680.	The captives returne, or The testimonys of John Danks, of Colchester, and Elizabeth Danks. Wing D10A.
Docwra, Ann.	1699.	An apostate-conscience exposed. Wing D1777A.
Dole, Dorcas.	1699. 1685.	A salutation of my endeared love to the faithful in all places. Wing D1836.
Ellwood, Mary &	1005.	A subdition of my challence love to the futtifue in all places. While D 1050.
Clipsham, Margery.	1685.	The Spirit that works abomination. Wing E610B.
Fawcet Margaret et al.	1691.	"Truth Exalted", The Testimony of several Women-Friends in Cumberland concerning the life and death of our dear Friend and brother in the Lord, John Burnyeat. Wing B5968.
		A demonstration, that Hen. Meriton, John Meriton and Lau. Park, priests, of the
Feddeman, John.	1699.	country of Norfolk, in confederacy with Francis Bugg, were the challengers; and not the Quakers. Wing F600B.
Fell, L.	1676.	\sim A testimony and warning. Wing F625.
Field, John.	1682.	J.F.'s reply unto Thomas Crisp's rapsody of lies. Wing F864C.
Fisher, Abigail.	1696.	An epistle in the love of God to Friends. Wing F984C.
Forster, Thomas.	1676.	A guide to the blind pointed to. Wing F1609.
Fuller, Abraham.	1687.	<i>The testimony of Abraham Fuller concerning the death of his son Joseph.</i> Wing F2381A.
Gwin, Thomas.	1690.	To the children of Friends, and other young people belonging to Falmouth. Wing G2282.
Hailes, John.	1693.	<i>A word of advice to all such as are going on in sin.</i> Wing H191.
Hambly, L., Coale, B.,		A relation of the last words and departure of that antient and honourable woman
Salthouse, T.	1683.	Loveday Hambly. Wing H472.
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Heywood, John. Ingram, William et al.

Keith, George.

Kelsall, John.

Key, Leonard.

London Yearly Meeting

1684.

1685.

1674.

1682.

1684.

1696.

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(Society of Friends).	1696.	to the king and government. Wing A3073.
Marshall, Charles.	1680.	A general epistle to Friends, and professors of the truth. Wing M740A.
Martindell, Anne.	1680.	<i>A relation of the labour, travail and suffering of that faithful servant of the Lord Alice Curwen.</i> Wing M857.
Meeting for Sufferings.	1692.	To the monthly and quarterly meetings of Friends in England, Wales. Wing W1966.
Parke, James.	1692.	A call in the universal spirit of Christ Jesus. Wing P366.
Penn, William.	1674.	<i>Christian liberty as it was soberly desired in a letter to certain forreign states.</i> Wing P1265.

A testimony of love. Wing T816.

A friendly perswation, and Christian exhortation. Wing H1756A.

A testimony against gaming, musick, dancing, singing, swearing. Wing K246A.

The ancient testimony and principle of the people called Quakers renewed with respect

The lybeller carracterizd [sic], or a hue and cry sent after him. Wing K383B.

A looking-glass for all those called protestants. Wing K180.

Pusey, Caleb.	1675.	A serious & seasonable warning unto all people. Wing P4250.	
Raunce, John.	1692.	For G.P., or the author of a little book entituled, Just measures. Wing R321.	
Redford, Elizabeth.	1696.	A warning, a warning from the Lord, in mercy to the people. Wing R661.	
Richardson, Richard [R.R.].	1677	To the anti-Quaker misorcus concerning oaths. Wing R1399.	
Richardson, Richard.	1681.	A few ingredients against the venom in William Roger's book. Wing R1394.	
Richardson, Richard.	1682–3.	A declaration against wigs or periwigs. Wing R1393.	
Rudyard, Thomas.	1674.	The Anabaptists printed proposals. Wing R2175.	
Salmon, William.	1674.	William Salmon's answer to Jeremiah Ives's request. Wing S420.	
Salmon, William.	1674.	An apology for the innocency and justice. Wing S421.	
Sandilands, Mary.	1696.	A tender salutation of endeared love. Wing S654.	
Sandilands, Robert.	1683.	Good counsel with a seasonable warning to all the inhabitants of Wells. Wing S659.	
Sankey, William.	1689.	An exhortation to friends in and about the county of Worcester. Wing S684.	
Sharpe Anthony et al.	1691.	"Truth Exalted", A Testimony of several Friends in Ireland, in whose Hearts it sprung, and who gave it forth in the behalf of our Dear Brother John Burnyeat. Wing B5968.	
Shewen, William.	1686.	A brief testimony against tale-bearers, whisperers. Wing S3418.	
Sixmith, Bryan.	1676.	The unskilful skirmisher rebuked for blasphemy. Wing S3924.	
Sleigh, Joseph.	1676. 1696.	Good advice and counsel, given forth by Joseph Sleigh. Wing S3992.	
Smith, Richard.	1675.	To professors of religion of all sorts. Wing S4161.	
Snead, Richard, et al.	1675.	Dear Friends all unto whom this may come. Wing S4389.	
Songhurst, John.	1681. 1680.	A testimony of love and good vvill unto all them. Wing 54687.	
Steel, Laurence	1678.	<i>Unto the youth of our friends (called Quakers) in the city of Bristol.</i> Wing U102.	
Stirredge, Elizabeth &	1076.	Cinto the youth of our friends (cultur Quakers) in the eng of Driston. White 0102.	
Dole, Dorcas.	1683.	A salutation of my endeared love in God's holy fear and dread. Wing S5685A.	
Tomkins, John.	1695.	A brief testimony to the great duty of prayer. Wing T1831.	
Townsend, Theophila.	1687.	A word of counsel, in the love of God. Wing T1990.	
Townsend, Theophila.	1690.	An Epistle of tender love to all friends. Wing T1988.	
Travers, Rebecca et al.	1677.	<i>The work of God in a dying maid, being a short account of the dealings of the Lord with one Susanna Whitrow. Wing W2039.</i>	
Tyso, John.	1683.	An ansvver to a dark confused paper. Wing T3593.	
Vokins, Joan.	1687.	A tender invitation. Wing V687.	
Waite, Richard.	1683.	The widdows mite cast into the treasury of the Lord God. Wing W225.	
Waldenfield, Samuel &	1680.		
Rallett, John.		A tender salutation to the flock of God in Ireland. Wing W291.	
White, Dorothy.	1684.	A salutation of love to all the tender hearted, who follow the Lamb. Wing W1752.	
Willsford, John.	1680.	A few words in love to all those bishops. Wing W2870.	
Winn, Deborah et al.	1690.	From our yearly meeting at York. Wing F2240A.	
Wood, Hugh.	1684.	A brief treatise of religious womens meetings. Wing W3393.	
Yeamans Isabel.	1679.	An invitation of love. Wing Y20.	
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Gillman, Anne. 1663. To the Inhabitants of the Earth. Wing G768A.

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M., R. 1660. A Word to the Royalists, or Cavelier. Wing M78A.

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