INVESTIGATING HIGHER EDUCATION SEMINAR TALK

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Abstract: In this paper, we consider how a combined corpus linguistics and conversation analysis methodology can reveal new insights into the relationship between interaction patterns, language use, and learning. The context of the paper is higher education small group teaching sessions and our data are drawn from a one million-word corpus, the Limerick-Belfast Corpus of Academic Spoken English (LI-BEL CASE). In this study, our analysis is based on 500,000 words of the corpus. Our methodology combines corpus linguistics (CL) and applied conversation analysis (CA), enabling quantitative findings to be elaborated by more close-up qualitative analysis of sequences of interaction. This CL-CA approach offers a fuller, richer description of small group teaching talk than would be found using either CA or CL alone. We suggest that awareness among practitioners of these relationships would help facilitate interactions which are more conducive to learning and in which students feel more engaged and involved.

Keywords: Corpus Linguistics, Conversation Analysis, classroom interaction, small group teaching.


Anahtar sözcükler: Bütünce Dilbilim, Konuşma Çözümlemesi, sınıf içi iletişim, küçük grub öğretimi.

Introduction

From an epistemological and ontological perspective, CA and CL have very different origins and research foci. CA takes as its starting point turn-taking and looks at how interactants establish and maintain sequential order. By using a detailed, microscopic approach to spoken interaction, CA sets out to explain how interactants co-construct meanings, repair breakdowns and orient to each other. Data are naturally occurring and the aim of the analyst is to show what ‘really happened’ by asking the question ‘why here, why now?’ in relation to sequences of turns-at-talk and by using a very small data-set. The ensuing rich, detailed and up-close commentary focuses on key features of the interaction which provide vital clues as to what is happening: these include pauses, overlapping speech, latched turns, ‘smiley voice’, laughter tokens, and so on (Heritage, 2004). CL, on the other hand, draws upon naturally occurring data, but offers a very different type of analysis. Here, the aim of the analyst is to examine specific linguistics features of the data

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in terms of word frequency, concordances, multi-word units and keyness. Put simply, the analysis is highly quantitative, uses a large sample of data and sets out to describe patterns and key linguistic features. The main focus is at the level of word or word patterns. CL allows for the (rapid) quantification of recurring linguistic features, which can be examined in their immediate linguistic contexts. Software programmes enable analysis which is accurate and consistent, fast and without human bias. (see, for example, O’Keeffe and McCarthy, 2010).

On closer examination, however, we can see that both CA and CL have much in common. They both use a corpus of empirical, naturally occurring data and refer to baseline comparisons with other types of interactions (sequential order in the case of CA, reference corpora in CL). They both look at language in context; an understanding of context lies at the heart of both approaches to analysis. For CA, the ‘language’ under investigation is social interaction, while for CL, ‘language’ means lexis. Yet both approaches use language which is context specific. Similarly, for both CA and CL, turn level analysis is crucial to enhancing understandings. It is at this level that the most revealing insights can be found – we will come back to this point later in the article.

By way of illustration of the viability of a conjoint approach to the analysis of spoken discourse, we use Corpus Linguistics (CL) and Conversation Analysis (CA) in the investigation of a set of recordings which had been transcribed to form a principled collection, or corpus: the Limerick Belfast Corpus of Academic Spoken English (hereafter LI-BEL). This corpus currently comprises almost one million words of recorded lectures, small group seminars and tutorials, laboratories and presentations. However, following on from previous research (see, for example, Walsh 2006, Walsh and O’Keeffe 2007), in this study, we were interested in looking at discourse in the context of longer stretches of text. To do this, we needed to combine CL with another approach since CL was unable to account for some of the features of spoken interaction which occurred at the 'higher levels' of utterance and turn (e.g. adjacency pairs). In order to conduct a detailed analysis at this level of the discourse, we were drawn towards conversation analysis (CA), an established and respected approach to providing detailed, micro-analytic descriptions of spoken interaction. This combined approach, using both CL and CA (henceforth, CLCA), we argue, cumulatively gives us a more ‘up-close’ description of spoken interactions in context (in this case, an educational setting) than could be gained by using either one on its own. From the analysis, we can gain powerful insights into the ways in which interactants establish understandings and observe how words, utterances and text combine in the co-construction of meaning.

Increasingly, CL is being applied to contexts and domains outside of the study of language itself where the use of language is the focus of empirical study in a given context. Such contexts include courtrooms and forensic linguistics (Cotterill 2010), the workplace (Koester 2006), the classroom and educational contexts (O’Keeffe and Farr 2003, Walsh and O’Keeffe 2007), political discourse (Ådel 2010), advertising and the media (O’Keeffe 2006), among other areas. In all of these cases, CL is used alongside another complementary approach, including CA, discourse analysis and pragmatics. We regard the use of CL with other complementary research methods as a definite strength in research design, and something which should be given further consideration in future CL-based research projects. It has to be stressed that none of the above studies could have achieved the same insights without CL in addition to another approach. In all of these studies, and in the present one, CL is applied to achieve a particular goal rather than used to describe the language features of a corpus. We are keen to draw the distinction between two
types of corpus research, neither less valid than the other. In each of these types of research, the corpus is described differently:

1) *descriptive corpus research*: the corpus as an end in itself. The researcher looks 'into' the corpus so as to scrutinise the use of language and further our description of language patterns in a particular genre. An example of this type of research is Bednarek (2006). This is a corpus study of evaluation in a corpus of newspapers. It tells us a lot about patterns of evaluation across and within the genre but it is not concerned with issues in a broader context of newspaper discourse, such as power, ideology, identity, and so on.

2) *applied corpus research*: the corpus as a means to an end. The researcher looks beyond the corpus for both its research questions and its analysis. The corpus is a powerful methodological tool which leads to greater depth of analysis in combination with another theoretical framework. An example of this is O’Halloran (2010) whereby a corpus of newspaper articles about immigrants is analysed within the framework of Critical Discourse Analysis and the result is an indepth analysis of link between the use of language patterns and ideology.

In this study, we could take a descriptive approach to our data and, by comparison with other corpora, we could come to a description of the language of small group interactions in Higher Education settings. This in itself would be a valuable exercise but we want to address broader issues of interaction in these setting and so we draw on a complementary framework within which to understand the patterns of language use in this context. We will refer to this as a CLCA approach.

**Context**

The focus of this study is small group teaching (henceforth SGT) in higher education contexts. SGT, such as seminars and tutorials, is used to support lectures by allowing tutors and students to engage in discussion and debate. While small group teaching is generally highly valued by both staff and students, there are some sources of dissatisfaction, with departments identifying problems relating to student engagement and tutor skills and a lack of time (see, for example, Bennet, Howe and Truswell 2002). In our study, we were interested in identifying some of the reasons for students’ apparent dissatisfaction and for a lack of engagement, especially in relation to tutor skills in managing the interaction, their ‘interactional competence’ (see Walsh 2006, Young 2008).

From the perspective of corpus linguistics, much influential work on spoken interaction in higher education is based on the Michigan Corpus of Academic Spoken English or MICASE (Simpson, Briggs, Ovens, Swales 2002). This corpus comprises data from across a range of speech events in higher education. It includes contexts relevant to the study reported here, such as classroom discussions, seminars, lab work and advising sessions. Studies based on the MICASE corpus have explored a wide range of phenomena in academic spoken interaction, such as metadiscourse in lectures (Lorés 2006), the use of conditionals (Louwerse, Crossley, and Jeuniauxa 2008), and, of more direct relevance to this study, the effect of class size on lecture discourse (Lee 2009).

Outside corpus linguistics, there is quite a long history of research into spoken interaction in higher education. Some of this research has taken as its main focus spoken interaction in SGT situations and used CA as a research methodology. More recent research on talk-in-interaction in SGT in higher education has uncovered important aspects of the processes or ‘machinery’ by
which seminars and tutorials ‘get done’, for example, by focusing on cues and signals used to manage interaction and participant roles (Viechnicki 1997), sequential organisation and negotiation of meaning (Basturkmen 2002), and the issue of ‘topicality’ in small group discussion (Stokoe 2000; Gibson, Hall and Callery 2006). Other research has explored the formulation and uptake of tasks and resistance to ‘academic’ identities (Benwell and Stokoe 2002).

Much of the more recent work on talk in SGT (particularly that of Benwell and Stokoe) draws on perspectives from ethnomethodology, conversation analysis and discursive psychology. In these perspectives, human social activity such as small group seminars or tutorials, are seen as locally produced accomplishments in which participants display their own understandings of the unfolding context. Participants take actions to further their own goals and agendas and display their orientations to others’ actions. In SGT contexts, tutors will demonstrably orient to the accomplishment of pedagogical goals and tasks, and students may accept or resist these actions (Benwell and Stokoe 2002).

In the present study, we were interested in the ways in which tutors and students manage the complex relationship between pedagogic goals and the talk used to realise them. In SGT settings, as in most educational contexts, there is a strong relationship between pedagogic goals and pedagogic actions and the language used to achieve them (Seedhouse, 2004). Understanding this relationship, and the ways in which tutors and students engage in tightly organised and intricate negotiations of a set of pedagogic agendas, lies at the heart of any enterprise which sets out to improve teaching and learning in higher education. We adopt the strong position taken by others that interaction and learning are inextricably linked (c.f van Lier, 1996, ‘interaction IS the learning’). Any attempt to enhance learning in SGT should therefore, we suggest, begin by gaining a closer understanding of the interactions taking place. By using a combination of CL and CA, we are able to provide a more realistic description of the relationship between pedagogic actions and the language used to achieve those actions in classroom discourse (Walsh, 2006), thus offering a greater understanding of the finer interactional adjustments and variations which exist in SGT interaction. We can then use these insights as a means to the end of addressing the problem identified above, that of the relationship between student engagement and tutor interactional skills in SGT in one higher education context.

Data and analysis

The study is based on data from the Limerick Belfast Corpus of Academic Spoken English (hereafter LI-BEL), which currently comprises 500,000 words of recorded lectures, small group seminars and tutorials, laboratories and presentations. These data were collected in two universities on the island of Ireland: Limerick and Belfast, across common disciplinary sites within the participating universities: Arts and Humanities, Social Sciences, Science, Engineering and Informatics and Business. From the main corpus, a sub-corpus of 50,000 was created by identifying all the instances of SGT, defined as sessions comprising between 15 and 25 students and where there was evidence of sustained interaction. It is perhaps significant that we were only able to identify 50,000 words (or 10% of the corpus) in which there was evidence of extended interactions. This is indicative of the current state-of-play of SGT in the two universities under investigation; it is apparent that tutorials and seminars are functioning more as extensions of lectures than offering opportunities for engagement and sustained debate.
Using WordSmith Tools (Scott, 2004) key words and word frequency lists for both single words and multi-word units were generated. The one-million word Limerick Corpus of Irish English (LCIE) was used as a reference corpus (Farr et al 2002). Table 1 illustrates the top 20 key words.

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<th>key word</th>
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<td>2</td>
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<td>your</td>
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Table 1 – top 20 key words from LI-BEL sub-corpus compared reference corpus (LCIE)

Through concordance and source text analysis via Wordsmith differences in the functioning of these higher frequency words was brought into relief. For example, *if* when used in ‘first conditional’ type structures had three main functions:

- pedagogic illustration of ‘general truths/facts’ *if John Kerry takes Texas, ...he takes every vote*...;
- projecting, ‘meaning when you find yourself in this situation’ *if you are on TP and you have a class that*...;
- demonstrating, *if you click the mouse and then click*...

Figure 1 illustrates the most salient items when we looked at the LI-BEL sub-corpus frequencies using LCIE as a baseline for comparison.

¹ *Ye* is the plural form of *you* used in Irish English. Even though it is prevalent in LCIE, it operates as a key word in the LI-BEL sub-corpus along with the standard for *you*. 
Fig 1 – Single word frequencies in LIBEL sub-corpus and LCIE

As Fig 1 illustrates, nine words single-word items were found to be significantly different in frequency when compared to the reference corpus. Some of these are context-specific, for example, the prevalence of the interrogative pronoun what, discourse markers so, okay, alright, deictic next (as in next week, next semester, next lecture), modality (what I need you to do, you need to etc.), and so on. Even at the word level the corpus data was pointing to the significance of such actions as eliciting information, signposting the discourse, locating learning and teaching in time and directing learners to perform certain actions and carry out tasks.

Having scoped out the word frequencies and word patterns related to these, we next moved to multi-word unit level of analysis. We identified over 128 multi word units (MWUs) in all and these further illuminated the earlier results for key word and the single word frequencies. This resulted in the emergence of clear categories into which the words and their patterns could be divided. We found that like the single word items referred to above, the MWUs which prove statistically salient in this context have the broad function of marking the discourse. They signpost, manage, demonstrate, sequence, set up activities/groups and they mark out shared and new knowledge (Carter and Fung 2007), as table 2 illustrates, based on our results.

<table>
<thead>
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<th>Category</th>
<th>Examples</th>
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<tbody>
<tr>
<td>Elicitation from individuals</td>
<td>any ideas of how you could, do you have any idea, do you think that would, did anyone else come up with, did ye come up with anything, any ideas of how, anyone have any idea, anything else to add, do you have any, do you think, give me an example of,</td>
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<td>and groups</td>
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Feedback on elicitations

- amm okay so, okay so, very good, a very good point,
yeah yeah yeah,

managing tasks and activities

do you think you could, I want ye to, I want you to, you're
going to, we're going to talk about what did your group
have? anything else? talk to the person next to

demonstrating and sequencing
do ye know how to, I'm going to, and then, what you can do
is put, we're going to what we're going to do

Relating to past or future references within the lecture or course
do you remember, next week, as I was saying, the next

Discourse markers of shared space

- you know what I mean, you know the way you, so you know,
thен you know, like you know, you know that, you know a,
you know ah, I mean, I think, I suppose

Table 2 – Broad functional categorisation of significant multi-word units in LIBEL sub-corpus

This is the point to which CL brings us. We could go back 'down' into any one of the high frequency items (words or multi-word units) and do more indepth analyses in the context of the data but if we want to move 'up' in our more general understanding of the data, we need to employ a discourse framework. Hence we move to the CA phase of the analysis.

Our CL analysis clearly identified a number of key linguistic features whose distribution was in some way marked in terms of frequency. In order to gain a deeper understanding of spoken interaction in this context, we needed to see how these statistically salient features actually operated in speakers’ turns and in longer sequences of interaction. In our qualitative analysis (see below), we examined the corpus using CA, building ‘collections’ (Hutchby and Woofitt, 2008) of similar instances of stretches of interaction where there was both a clustering of the linguistic features identified in the corpus analysis in addition to specific patterns of sequential organisation (Schegloff, 2007).

Moving on to longer stretches of discourse which our CL analysis had helped us to identify (because these stretches of text were marked in some way), our focus shifted now to an analysis of the sequential organisation of turns at talk. Our CA analysis enabled us to identify a number of specific interactional features of the discourse which we were then able to consider alongside the linguistic features previously identified in the CL analysis. While the CL software on its own could show us how and where key words, high frequency words and MWUs clustered through the use of dispersion plot graphs, by using CA, we were able to consider the ways in which linguistic and interactional features come into play and how both sets of features collectively
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contribute towards co-constructed meaning. In short, this dual analysis enabled us to reveal patterns and relationships between tutors’ and learners’ language use which each methodology on its own would be unable to uncover.

By way of example, compare the sample plot graphs for the high frequency items, *last week*, *next week* and *okay* in the data. These show us whether these items cluster at certain points and in which files (i.e. which interactions/classes). References to *last week* and *next week* prevail at the beginning and end of interactions whereas *okay* is more dense at the beginning of interactions but is used throughout as well, with ‘clusterings’ around certain phases of a seminar or tutorial.

The dialectic between CA and CL thus allowed us to better understand why certain items were clustering at certain points. We now look at the most salient contexts in which high frequency items clustered. For the sake of convenience, we label each context according to its predominant pedagogic function.
Organisational talk

Much of what goes on in SGT entails tutors organising learning in some way, often temporally or spatially. Here, tutors’ pedagogic goals are to inform students about different procedural matters (the date and time of an examination, the materials to bring to the next session, and so on). Consider extract 1 below, where the tutor makes frequent reference to time (the next day, week nine, and so on). The prime purpose here is to alert students to upcoming tasks and activities, and to the overall organisation of modules and courses. Note too the use of okay at the end of this sequence as a marker of a transition to the next stage of the SGT session. Okay was the third most statistically ‘key’ lexical item in the corpus, occurring very frequently in stretches of organisational talk.

Extract 1
1 T: I’ll talk to ye about those the next day (. ) that’s
2 week nine (. ) this is only week two isn’t it? so amm
3 we’re okay with regards to that (. ) you see now amm
4 okay

The interactional organisation of ‘organisational talk’ is characterised by long turns by one participant (normally the tutor), while the other participants produce short responses or no responses at all. It is here that the tutor may use discourse markers such as ‘okay?’ to check understanding, but often will not wait for a verbal response (presumably relying on visual information to monitor the state of comprehension of the other participants). In our data, it was very obvious that the tutor may also perform the role of both questioner and answerer, as evidenced below in extract 2, where the tutor produces both the first and second-pair parts of a question, with no pause between them to indicate a turn transition relevance place, showing that no response is expected:

Extract 2
1 T: so if I told you I wanted horizontal lines in that
2 first box (. ) what would your first thing to do be
3 (. ) well would you kind of come in here like this and
4 go like that? no you wouldn’t because free hand you
5 don’t need to have the sheet attached fully to the
6 desk

Instructional talk

Much of the interaction of SGT was found to be reminiscent of more traditional classroom discourse, dominated by display questions, IRF exchanges, short utterances from students, and so on. In what we are calling ‘instructional talk, the discourse is highly controlled, with the main
responsibility for managing the interaction firmly in the hands of the tutor. Turn-taking is tightly controlled by the tutor, who manages both next turn allocation and questions addressed to individual participants, thus making the respondee’s provision of the second pair-part strongly relevant. In terms of corresponding linguistic features, the most obvious example is found in concordance searches of the pattern *tell me*:

| Class what would you tell me your aims might be? | that’s it. Can anyone tell me what type of type of objective that is. Students will be |
| . I want you to tell me come back to me and tell me do you think there’s ns. And ahh can anybody tell me why that’s not the case? Why is it that you know there |
| . Fine out. And can you tell me what type of an objective that is? They're labelling a |
| ot . I want you to tell me come back to me and tell me do you think there’s anythin |
| the groups saying right tell me what your list is tell me what your list and that’s your |
| the groups saying right tell me what your list is tell me what your list and that’s your |
| So tell me what ye’d put down instead so? If you were talking about |
| he sense of? . And tell me have you any ideas of how you could possibly include |
| self I’ve now told you. Tell me anyone again how could you change that objective to mak |

*Fig 5 – Extracts from concordance lines of 'tell me'*

Another example is *I want you / ye to*:

| Right then over here what I want you to do is take any line in the middle make a wavy line like |
| Single group in the class. I want ye to look at that lesson plan and I want you to critique under |
| o minutes. I’ve got . I want you to tell me come back to me and tell me do you think there’s |
| izontal like this. So what I want you to practice is roughly around maybe five eight mils apart. |
| with your setsquares. What I want you to do is do a bit of printing in there. Lovely lovely plan |
| in your pairs again I want you to look at this lesson plan. First of all I want you to |
| an and in your pairs again I want you to look at this lesson plan. First of all I want you to |
| sson plan okay? Number two I want you to decide amm would you be happy if I told you in the next |
| e you okay for two minutes I want you to discuss that in the sense of is there anything missing |

*Fig. 6 Concordance extracts of the pattern ‘I want you to’*

Consider extract 3 below, which comes from a teacher education seminar, and which makes extensive use of the MWUs found in the corpus and used for eliciting information (as in lines 7, 9-10, 12):
**Extract 3**

1. T: say now it’s we’ll give a a topic example again
2. (.).ahh let me see what would you be doing at all? the
3. same genetics again we’ll go back to that (.). amm (.)
4. you’re teaching your fifth year class genetics and
5. you say pupils should in will be enabled to?
6. S: (find out?)
7. T: perfect find out (.). and *can you tell me* what type of
8. an objective that is? they’re labelling a diagram (.)
9. what type of an objective is that? anyone have any
10. idea? remember I was telling you that there’s three
11. types of objectives (.). what type of objective is
12. that? *can anyone name* any one of the three? oh this
13. is fun at nine isn’t it? kind of you know twenty
14. questions

This extract shows one other typical feature of this context, an IRF exchange in lines 5-7, with a cued elicitation used in the initiation move. The use of ‘perfect’ (line 7) is an example of evaluative feedback, typical of the follow-up move in the IRF exchange. In fact, it is telling for the ubiquity of this exchange that the statistically salient or ‘key’ lexical items with the function of giving feedback on elicitations were typically found in this position. The tutor’s long turn (lines 7-14) consists almost entirely of elicitation, to the extent that this provokes a meta-comment on the discourse in lines 13 and 14.

**Discursive talk**

One of the most important indicators of success in any educational discourse, arguably, is a tutor’s ability to create shared space where learning can take place. This is particularly true in a higher education context, where students must feel able and willing to participate and contribute to the discussion. In this study, we were interested in the ways in which tutors, through their choice of linguistic and interactional features, created ‘space for learning’: interactional space in which students could become involved, engaged, and willing to take risks in the discussion. Our quantitative analysis showed quite clearly that what we called ‘discourse markers of shared space’ occurred frequently in this context, labelled here ‘discursive talk’. By discursive talk, we mean instances where students produce accounts of experiences that they are having as part of the course, often accompanying these accounts with assessments of situations and behaviour. The
tutor accepts and builds on these accounts, converting them into pedagogical material in the form of reflective statements about appropriate behaviour, roles and identities in the professional practice of the discipline. Agreement to assessments is favoured (there is a lack of dispreferred responses) and there is frequent use of interpersonal discourse markers to provide supportive responses to the speaker (yeah) and to mark shared knowledge (you know; you see).

Our comparative corpus analyses into such items show telling differences as illustrated in fig. 7 in the comparison of you see and you know.

![Fig 7 – Comparison of 'you see' and 'you know' in LI-BEL sub corpus and LCIE (normalised results)](image)

You see usually marks new information while you know generally marks shared information (Carter and McCarthy 2006). It is telling that in a corpus recorded in higher education classrooms that we find an exceptional number you knows (marking shared information) but we find more or less the same amount of you sees (marking new information). The priority to build on and appeal to shared knowledge and 'shared space' is central to both the pedagogic and interactional process.

The interactional features of this kind of talk show that there is considerable symmetry; tutor and students adopt almost equal roles and it may not be immediately obvious who the tutor is. Typically, turns are evenly distributed and often managed by students themselves, in a way which closely resembles everyday conversation. Tutors may initiate exchanges as a form of open invitation to produce accounts of experience, as in extract 4, taken from a film studies seminar.
**Extract 4**

1. T: how are you getting on with your other ahh module (.)
2. ahh the the the filming one
3. S3: we’re filming a scene at the moment we’re editing and
4. it’s crazy
5. T: yeah you see it is crazy isn’t it (. this week now
6. is going to be unbelievable
7. S3: it’s just music and we’re just putting it together
8. you see now (. you know you’ve all the footage but
9. you’re there trying
10. S?: (   )
11. S3 we have so much footage and it’s just like you some
12. people have to accept that some of it
13. S? (   )
14. T: yeah well it’s like essays isn’t it (. I mean you
15. can’t write from the middle you know=
16. S4 =that was my idea so we can’t lose that and you’re
17. like going=
18. T: =who who’s the director?
19. S3 I wish I was the director
20. S2 in our in my group John C is
21. T: okay yeah you see that’s the thing like you know I
22. mean like really it does all come down to the
23. director and the people should respect that
24. immediately you know (. that doesn’t happen that
25. often (. you know what I mean it can get the roles
26. can get dispersed

The overall tone of this interaction is conversational. In response to the teacher’s opening turn, one student (S3) produces an account of a group’s experiences of making a film, including an assessment of the situation (it’s crazy), to which the tutor offers a preferred (agreeing) response with the discourse marker ‘yeah’ and the repetition of the assessment, before building on this to project what experiences will be like in the future. It seems apparent that participants can express feelings such as frustration with aspects of the course, or in the case above, with other students’ behaviour. In lines 11 and 12, S3 indicates that ‘some people’ may have problems in accepting that material has to be cut, and in line 19, seems to be expressing frustration either about the existing director, or the lack of a director’s role in the group.

The role of the tutor here is to ‘take a back seat’, listen to what students contribute, take their experiences and feelings and build on them, and so on. The pedagogic goal is to reinforce appropriate behaviours and identities, especially in a context where professional practice is important, as in the one above. However, there may be a tension between the establishment of a more ‘equal’ turn-taking system, with the freedom to express feelings, and the need for tutors to convert this into pedagogically useable material. This can be seen in the tutor’s last turn in the extract (lines 21-26), in which ‘okay’ marks a switch in orientation, and the content about appropriate roles and behaviours is prefaced with a lengthy string of hedges, indicating pragmatic work in switching roles from an empathic listener to a ‘reflexive judge’ (Baumgart, 1976).
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tutor does quite a lot of interactional work in order to change footing (‘okay yeah you see that’s the thing like you know I mean like really’); his stance after this preface is that of teacher again, giving instruction and passing on new knowledge. The interactional work is apparently needed in order to change from equal interactant to tutor, to move from a position of role symmetry to one of role asymmetry.

Argumentative talk

A key aim of higher education is to foster criticality and promote individualised thinking. Most tutors would be delighted if students would engage with their discipline, discuss, debate and argue about new concepts, challenge existing principles and offer new ideas of their own. Unfortunately, all too often, this does not occur and students resort to being passive recipients, apparently disinterested and only motivated by information which will help them pass the course or success in an assignment. In our data, there were instances of what we are calling ‘argumentative talk’ where there was some kind of discussion or debate, even argument.

Typically, and based on our quantitative CL analysis, argumentative talk occurred most frequently when there was a preponderance of discourse markers of shared space. Accompanying these discourse markers, we also found a heavy use of frequent examples of negation or adversative items such as ‘but’, as exemplified in Figure 8 below:

| hurling and laughing you know. But this is it. This is our oral tradition. |
| settle on that. Exactly amm but what about like I totally agree with that |
| symbol of ahh well regression I suppose. But what did happen in Limerick was the amm aying about his intro- or you know but your not allowed say that. What’s your |
| That’s a problem. Yeah no but you’ll know this it’s it’s the . It at they have it kind of . Yeah okay. But you’re saying that maybe that they okay so understand them at all. Okay? But a sense of territory is there. Okay? |
| because that was my fault. Okay? But the next all the rest of the classes do ut and then you come back and right but you’re wrong . What do you think? |

Fig 8 – Sample concordance lines of 'but' preceded by a discourse marker in argumentative contexts

From an interactional perspective, contexts in which argumentative talk could be found were characterized by a symmetrical speech exchange system, with ‘give and take’ in the interaction as tutor and students collaboratively negotiate meanings and co-construct understandings. There can be quite rapid exchanges of assertions, with frequent occurrence of dispreferred options such as straight rebuttals, and there is a high frequency of latched turns and a relative lack of pauses at transition relevance places. Extract 5, which is from a politics seminar, is a clear example of argumentative talk in action:
Extract 5 opens with an apparent challenge from S5 (are we are we defining (. ) ethnicity or nationalism) followed by an uncertain response from the tutor (lines 2-4). Note the frequent use of pausing (. ) which may indicate hesitation or uncertainty. In line 5, the same student appears to be dissatisfied with the tutor’s previous response and interrupts (indicated =) with a further challenge. S5 also appears to show some uncertainty in line 8 ( a pause (. ) followed by aggh), allowing the tutor an opportunity to interrupt again in line 11. The tutor succeeds in holding the floor from lines 11-16 and, despite some obvious transition relevance places (marked (. ), nobody challenges his explanation further. Indeed, he even closes down space in  14 (do you get my point (. ) okay). The discourse marker ‘okay’ here seems to show a degree of finality to the discussion, pointing to a transition in this stage of the seminar and a time to move on.

The pedagogic orientation appears to be towards an open and dialogic exploration of disciplinary knowledge, similar to Barnes’ (1992) and Mercer’s (2000) ‘exploratory talk’. However, this micro-context actually shows characteristics of ‘disputational talk’ (Mercer, 1995, 2000) in which participants, rather than interacting to build knowledge together, dispute each other’s meanings in ways which may not move the discussion forward.

Discussion

In terms of our actual findings within the study, we can claim that it has several implications. First, there is a need for further research to consider more carefully the relationship between language use, interaction and learning in SGT sessions. At present, we only have a partial understanding of the complex relationships between language, pedagogy, interaction, learning and knowledge. The linguistic and interactional features identified in our data, we suggest, perform a central role in co-constructing meaning, in promoting criticality and in engaging learners in academic debate. There is more work needed to promote an understanding of the ways in which these features assist in the creation of space for learning.

Second, we would argue that there is a need for tutors to develop greater interactional competence in order to facilitate the kind of ‘whole class interactive teaching’ such as that
Currently being advocated in the national literacy strategy in secondary classrooms. Classroom interactional competence (Walsh, 2006) refers to the specific interactional strategies that tutors use to help learners express new ideas, discuss key concepts, question accepted knowledge, and articulate emerging understandings. By helping tutors gain greater interactional competence, we suggest, the overall quality of learning can be enhanced, both in terms of depth and breadth.

Third, there is a need to look more closely at ways of including and involving students more fully in the discourse of SGT sessions, raising students’ interactional competence and facilitating a more interactive, engaging learning environment. We suggest that much can be done to improve the learning experience of students by helping them to consider how they can become better interactants, more able to articulate complex ideas or take a particular stance in relation to an idea, concept or theory.

Finally, further research is needed to evaluate and assess the extent to which the micro-contexts we have identified in this study stand up to closer scrutiny when extended to other contexts in which SGT takes place. This study was carried out in one national context (Ireland) using a relatively small corpus. Further studies using larger corpora across a range of contexts in higher education would be likely to reveal the robustness of the framework for understanding interaction in these contexts.

**Conclusion**

In terms of the overarching focus of this paper, namely the proposition that CL and CA are suitable bedfellows, we have shown in our exemplar not only how they can be mutually beneficial, but how they can actually synergize. Through an over and back process, a methodological dialectic, we were able to identify and verify four distinct micro-contexts which emerged through a combination of the tutors’ and students’ orientations to certain pedagogic goals, and the speech exchange systems set up to produce this knowledge as an interactional accomplishment between them. Implicated in, and indexical of, these micro-contexts, is the use of high frequency items in the corpus at particular points in the interactions. Had we used CL on its own we would have achieved an interesting list of high frequency items which we could have explained functionally, but it would not have brought us anywhere near the depth of understanding compared with what a CA framework could explain. Had we looked at the data purely from a CA perspective, we may have established the four micro-contexts, but we wouldn’t have been able to support the fact that the words and patterns which are contained therein were actually high frequency items (i.e. key words, high frequency words and multi-word units). In addition, by drawing on quantitative methods within CL, we were able to reference our findings against another dataset. All in all therefore, we can safely assert that CL and CA are ‘well met’.

By way of final reflection on what CL can gain from CL, we see the narrowness of the CA transcription as something that needs to be accommodated more into the transcription of spoken corpora and the need to align recordings with transcripts is also something which will hopefully become more a reality as the next generation of spoken corpora emerge.
References


