

Language-Related Episodes in Learner-Native Speaker Collaborative Writing Interaction

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Abstract

Synchronous online writing platforms (e.g. Google Docs) have provided a dynamic approach to deliver peer feedback and negotiation for students in a group project. Previous research on collaborative writing and language learning has discussed collaboration among second language learners in classroom settings, with a focus on either their editing history or collaborative dialogue. This article considers both the oral and written interaction in the collaborative writing between native speakers (NS) of English and high proficiency nonnative speakers (NNS) of English on the synchronous writing platform Google Docs. This article used Language-Related Episodes (LREs) to analyze the patterns of interaction between the participants during their collaboration on a co-constructed essay. Follow-up questionnaires and interviews with participants provided insight into their perception of their collaboration in the context of online technologies. The results showed that 1) there were more Lexical LREs during the oral dialogue, while more Form and Mechanical LREs in written form on the Google platform, 2) NNSs reported to have benefited more from the feedback on their vocabulary and expressions, while NSs more from the feedback on organization and ideas, and 3) factors such as power relationship and partner's openness to correction influenced the interaction in collaborative writing.

1 Introduction

Due to a growing population of international students in English-medium-instruction universities, and the increased popularity of group work and collaborative learning in many disciplines across higher education curricula, it is common for collaborative groups to consist of both Native Speaker of English (NS) and Nonnative Speaker of English (NNS) students (Cheng, 2013). Previous research has shown that learners have been exposed to the opportunity to learn from each other by collaborating with others in group tasks. Leki's (2001) study, however, found that students often "redefined the task from one that would provide an opportunity to learn or practice to a job that merely had to get done, with the focus then being on how to get it done with the greatest efficiency and least expenditure of time and energy, usually by splitting up the tasks and never reintegrating the sections" (p. 59). Leki's study indicated that it is equally important to look into the interactions as well as the writing products in collaborative projects.

Collaborative writing (CW) research has gained prevalence in recent years. However, there is scant research on how students interact socially with peers to produce written texts through synchronous collaborative writing (SCW) technology (Yeh, 2014). This article intends to investigate the interaction patterns in collaborative writing between NS and NNS on a synchronous writing platform. In the present study, the online writing platform ensures the participants' ownership of written texts synchronously, and I argue that the exchange of feedback on Google Docs allows the

participants to notice content, linguistic, and organizational problems in their writing and thus leads to their meaning negotiation and grammatical error correction.

2 Literature review

2.1 Collaborative writing

Research has noted the importance of collaborative writing studies in the field of language learning. Ede and Lunsford (1990) proposed that collaborative writing should include active task engagement by two or more students during the process of writing, which creates shared ownership to plan and produce ideas for a single written text. In this sense, collaborative writing tasks may be more conducive to second language learning than solitary writing (Fernández Dobao, 2012a). The literature has noted many benefits of collaborative writing. The theoretical basis for these projects largely rests on the work of Vygotsky (1978), whose sociocultural theory defines learning as a fundamentally social experience and provides a rationale for the use of interaction in classrooms. The sociocultural theory values interaction between experts (e.g. teacher, native speaker) and novice learners, as much as between peers. Researchers in second language acquisition (SLA), informed by sociocultural theory, have focused on the nature of the scaffolding and the use of language during such interaction (Storch 2013). Numerous studies have shown that learners scaffolded each other during collaborative activities in various L2 contexts (Suzuki & Itagaki, 2007; Swain & Lapkin, 2001; Watanabe & Swain, 2007, 2008). For instance, the findings from Wigglesworth and Storch's (2009) study on the role of collaboration and interaction in composing processes suggested that in collaborative writing activities, pool knowledge acts as an enabler that encourages learners to produce more accurate texts as a result of shared knowledge.

Research on collaborative writing has gained increased popularity since the advent of online collaborative platforms (Aydın & Yıldız, 2014; Kessler, 2009; Levy & Stockwell, 2006). The research on online collaborative writing can be divided into three strands. The first line of inquiry has examined students' wiki writing and revising behavior. Yang's (2014) study examined the process of collaborative writing of three groups of ESL (English as a second language) students at two Canadian business schools over one semester. He found that L1 background, L2 proficiency, and group rules appeared to either facilitate or constrain the process of collaborative writing across the three groups. The results confirmed Swain's (2006, 2010) statement that the extent of success in collaborative writing is greatly influenced by the language proficiency of team members, the nature of collaborative writing tasks, and interaction patterns. Neumann and McDonough (2015) found that although structured collaborative pre-writing tasks elicited student's talk about content and organization, there was only a moderate correlation between these pre-writing discussions and the students' written texts. In particular, the groups where students merely took turns to state their own ideas tended to stick to their original ideas more than the groups where members gave each other feedback. Their study confirmed Shi's (1998) study, which found that students in collaborative writing generated a lot of ideas but did not spend as much time evaluating them and never talked about ordering them.

The second research strand has focused on interaction patterns before or during collaborative wiki writing. Bradley, Linstroem, and Rystedt (2010) detected three distinct patterns of interaction in an English for Special Purposes (ESP) collaborative writing course: a lack of visible interaction, where only one individual posted a full piece of text; cooperation, where individuals worked in a parallel fashion; and collaboration, where individuals engaged with each other's ideas and jointly wrote the essay. Yet their study examined the interaction more from the writing product perspective. Research on face-to-face collaborative writing (e.g. Storch, 2002; Watanabe, 2008) showed that interaction patterns influence students' writing performance and their learning outcomes. Storch (2002) conducted a collaborative writing project with ESL college students and found four interaction patterns: collaborative, dominant/dominant, dominant/passive, and expert/novice. Storch categorized the four patterns by the extent of equality and mutuality (Damon & Phelps, 1989), where

equality refers to authority and mutuality refers to the level of engagement with each other's contribution. Her study reported that the pairs displaying a collaborative stance (collaborative and expert/novice) showed evidence of more uptake and more transfer of knowledge in subsequent individual work than the pairs exhibiting the remaining two patterns (dominant/dominant and dominant/passive). In Li and Kim's (2016) study on using Wikispaces in a university-level English for Academic Purpose (EAP) course, the authors first used three distinctive tools (i.e. Discussion, Comment, and History) on the online writing platform to examine the writing process. Their study recognized six scaffolding strategies that students used to scaffold each other in collaborative wiki writing tasks: affective involvement, contingent responsivity, direction maintenance, instructing, intersubjectivity, and recruiting interest. Yeh's (2014) study found that through collaborative dialogues, students benefited from text-based synchronous communication, such as clarifying their linguistic misconceptions, and receiving immediate feedback that helped resolve their writing problems. The findings suggest that students could be provided with more opportunities for collaborative dialogues during the entire writing process, including the stages of generating ideas, writing reaction essays, and editing.

The third strand of research concerns the learners' perception of collaborative writing. Research in this line shows that most students hold positive attitude towards the impact of collaborative writing on their language skills (Fernández Dobao & Blum, 2013; Kwon, 2014; Shehadeh, 2011; Storch, 2005). In Kwon's (2014) 8-week study on English as a foreign language (EFL) student collaborative writing, for instance, students mostly reported an improvement in their English accuracy because of collaborative writing and peer feedback. However, Kwon was uncertain of whether the improved accuracy could also be the result of his grammar instruction. Nevertheless, studies in this line reported that the L2 learners also showed a concern for their lack of contribution or overly appropriation in collaborative writing tasks.

While research on the value and potential role of collaborative writing is well established in first language (L1) writing and the ESL contexts (Storch, 2013), there is some uncertainty about how to implement collaborative writing tasks between NS and NNS, given it is now common for collaborative groups in higher education to include both NS and NNS in the United States (Cheng, 2013). Previous research showed power inequity in curricular activities that include both NS and NNS students (Cheng, 2013). The NS peers either consciously or subconsciously assumed the roles of experts and positioned NNS students marginally (Leki, 2001). In contrast, NNS were disadvantaged when interacting with NS peers (Morita, 2004; Zhu, 2001). Research on collaborative writing among L1 writers or among ESL learners has been well established. Few studies have investigated how NS-NNSs interact in collaborative writing tasks and how they perceive their interaction and power relation in the same task.

2.2 Language-related episodes (LRE)

In research on collaborative writing, the unit of analysis tends to be a language-related episode (LRE) (Storch, 2013). According to Swain and Lapkin's (2001) extended definition, LREs are a group of utterances or any segments of dialog "in which the group members are talking about the language they have produced or are producing, correct themselves or others, or question or reflect on their language use" (p. 292). An LRE is a segment in the learners' talk where learners deliberate about language while trying to complete the task (Swain, 1998; Swain & Lapkin, 1995, 2001). That is, in these episodes learners focus their attention explicitly on language use. In Storch's (2013) book, she categories LREs in collaborative writing into 5 kinds: Form-based LRE, Lexis-based LRE, Mechanical LREs, Discourse focused LRE, and Incorrectly resolved LRE. The LRE does seem to provide a useful unit of analysis for learners' deliberations about language. In her book, Storch showed that the writing phase of the task elicited more LREs than the speaking only phase, since the former tends to stimulate more lengthy discussions about language than the latter. Insight into the interaction patterns in the writing phase task and how this oral discussion influences learners' writing products is important to look at.

2.3 The present study

The focus of this study is to investigate what Language-related episodes may be spontaneously generated from Learner-Native interaction and what factors might affect the interaction patterns. Furthermore, although previous research was done in ESL contexts, most of the studies were conducted in language classroom settings. To some extent, excluding native speakers of English in research has overlooked the real situation in an ESL context, where non-native speakers are taking curricular classes alongside their native speaking peers, which is the goal of many (although not all) language learners in university-level ESL programs. Research on collaborative writing between native and non-native speakers is underdeveloped.

This study was also conducted on the Google Docs platform, where the members of the participant pairs can see each other's feedback, correction, and revision on their own screens synchronously. Inspired by both Amirkhiz, Bakar, Samad, Baki and Mahmoudi's (2013) and Fernandez Dobao's (2012b) studies that used LREs as a unit of analysis in studies of collaborative writing on Wikis, I hypothesized that the technology could make the Language-related episodes more visible and focused. The research questions of this study are as follows:

- 1. What are the Language-related episodes (LREs) of native and non-native pairs like in the course of collaborative writing?
- 2. How do students perceive group work in terms of learning opportunities and collaboration?

3 Methodology

3.1 Participants

The study included 6 native speakers of English and 6 learners of English with various L1 backgrounds. These participants were recruited through my personal contacts. All but one pair of participants already knew their writer partners before the study began. Two pairs of the participants were dating or married, in closer relationships than the rest of the pairs. Most of the participants were pursuing graduate degrees in various fields, including Applied Linguistics, Anthropology, Fine Art, and Oceanography, in the United States. The biodata of the participants are provided in Table 1 (the participants' are identified by their pseudonyms):

Pair No.	Pseudonym	Gender	English Proficiency	Years in English- speaking countries	First Language	Relationship	
1	Jung	F	Advanced	1	Korean	Court	
	Ben	М	Native	28	English	Couple	
2	Mukti	F	Intermediate	1	Urdu	Acquaintance	
	Ashley	F	Native	27	English		
3	3 Junko F Advanced		0.5	Japanese	Never met		
	Beth	F	Native	24	English	before	
4	Мо	F	Intermediate	2	Thai	Acquaintance	
	Megan	F	Native	24	English		
5	Taro	М	Advanced	2	Japanese	Acquaintance	
	Kate	F	Native	33	English		
6	Ming	F	Advanced	7	Mandarin	C = 1	
	Chris	М	Native	21	English	Couple	

Table 1. Characteristics of group participants

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3.2 Instrumentation

3.2.1 The writing prompt

The writing prompt for the research came from the argumentative writing section of the International English Language Testing System (IELTS) exam. According to Hess' (2011) Cognitive Rigor Matrix for reading and writing, argumentative tasks were considered to be cognitively and linguistically more demanding than the informative task in general. A task that is more cognitively demanding requires more collaboration between the participants. The essay prompt was stated as follows:

In most countries disabled people are not catered for adequately, e.g. buildings are often inappropriately designed. Governments rely too heavily on charities and voluntary organizations to provide assistance and funding. What further measures could be taken to assist disabled people? (IELTS Writing Task 2 Sample 713)

The participants were told to use as much time as they need to complete a 300–500 word essay on this topic. The prompt asked the participants to check with their partners to make sure the essay is complete, succinct and logical. They were allowed to discuss with their partners and comment, edit, or revise their partner's writing during the task.

3.2.2 Google Docs

The Google Docs platform is an online writing platform that allows different authors to edit the same passage synchronously and asynchronously. Co-authors can write the same passage collaboratively on their individual devices. The major Google Docs functions used in this study are suggesting (i.e. revising), editing, and commenting. The suggesting function allows an author to revise others' writing with an explicit track of the revising history. All the participants have access to the revising history. By the editing function, the writers can edit the collaborative work directly without leaving an explicit track of the editing history. And the commenting function allows the writers to leave comments to each other as regards a specific part of the passage.

3.2.3 The survey instrument

The questionnaire (see Appendix A) was adapted from Aydın and Yıldız's (2014) study on collaborative EFL writing and revised to apply to both the nonnative and the native speaking participants in this study. The questionnaire included questions about their biodata background information, their attitude to this specific experiment, and their overall experience with the use of Google Docs and the efficacy of collaborative writing. There are 17 rating items on a five-point Likert scale.

3.2.4 Follow-up interview

After the writing task, one participant in each pair participated in a 10-minute interview, while the other one was completing the questionnaire. The participants then switched positions to complete the task they had not already done. The interview was used to elicit more information about whether the participants had learned some writing skills or linguistic knowledge from the collaborative writing process, and further questions asked about their attitude towards the collaborative writing on their language learning and writing skills development. The interview prompts were divided into two parts: first, questions specific to the experiment's writing task itself, and some impromptu questions based on the pair's interaction during the task; and second, more general questions about their experience in collaborative writing and their opinions on the experience. The interview protocol is included in Appendix B. These interview prompts were developed from the response to a pilot open-ended survey on Google Docs writing and English learning from two Japanese learners of English conducted before this study.

3.3 Data collection procedure

The data were collected in the lounge of a graduate student dorm during the spring recess. Before the writing task, the participants were given a brief instruction on the tools in the Google Docs platform that allow revising, editing, and commenting on the text, and counting words and checking the revising history. They were told to write how they usually wrote together with others. They needed to have a consistent and succinct essay and were therefore recommended to check with each other. Once familiarized with the procedure, they completed the main task. The pairs spent an average of an hour on the main task.

During the task, the two members of the pair sat at a table next to each other, with an audio recorder placed between them. The pair members brought their own laptops so they could see the same Google Docs page from their own screens during the writing task. Their activities on the Google Docs were synchronously screen-recorded on my laptop. Both Pair 2 and Pair 6, however, had to share the same computers during the task, because Mukti from Pair 2 forgot to bring her laptop on the day, and Chris had hurt his fingers days before the task and was unable to type.

The argumentative writing task was followed by the survey and the interview immediately after the performance of the task. I interviewed one member of the pair while the other one was filling out the survey. After the ten-minute interview, I interviewed the second member, while the first member was filling out the survey. The only exception was Pair 6, who participated in the interview at the same time, because they said they felt comfortable in that way. The interviews were audio recorded for further analysis.

3.4 Data analysis

3.4.1 Audio recording

Audio recordings of NS-NNS interactions were transcribed for analysis using Jeffersonian convention (Johnson, 2009; see Appendix C). The transcribing process followed the Index-Transcribe protocol (McLellan, MacQueen, & Neidig, 2003). I listened to the recording closely and wrote down the major points of the interactions, indexed the minute and second on the recorder, and included a short description of my opinions about the excerpts. In this study, an LRE was defined as any part of peers' collaborative dialogue that is related to language they were producing or had produced, and the revision or comment they made to their partner's or their own written text (Amirkhiz et al., 2013, Swain & Lapkin 1998). For the purpose of coding the Language-related episodes, I coded the transcript and listened to the audio to verify what I had found in the transcript. In addition, the screen recording of the participants' producing, editing and revising activities was used to triangulate the audio data. The revising history of the written text recorded on Google Docs was also used to triangulate the counts of LREs.

3.4.2 Questionnaire data

The results of the questionnaires were typed into SPSS and descriptive statistics (mean and standard deviation) were calculated to compare the difference in the ratings of the native speakers of English and the non-native speakers.

3.4.3 Interview data

I audio-recorded the interviews and took field-notes of the responses and important points brought up during the interviews with the participants. The responses recorded during the interviews were collected, reviewed, grouped into measurable categories, and analyzed qualitatively. Instead of imposing a framework onto the data from an a priori source, I allowed patterns to emerge from the data themselves. The coding process followed the stages in grounded theory methods, which "consist of systematic inductive guidelines for collecting and analyzing data to build middle-range theoretical frameworks that explain the collected data" (Charmaz, 2000, p. 509). Two particular types of data were attended to: one concerned the participants' attitude and opinion towards collaborative writing in general; the other concerned the participants' explanation to their idiosyncratic behavior during the writing task in this study. The results in the collaborative writing showed there are three distinct forms of interaction patterns during the writing tasks. The different patterns occurred in different phases of writing (before writing or during writing) and in different forms (oral discussion or written suggestion).

4 Findings

4.1 Language-related episodes in a collaborative writing task

Three types of LREs were identified in the transcribed data of the interactions. I present some excerpts from the dyad interactions to illustrate how these analyses were conducted.

4.1.1 Form-oriented LREs (FO-LREs)

In the present study, any segment in the collaborative discourse that dealt with grammatical accuracy (e.g. verbs, articles, linking devices) was categorized as form-oriented LRE. Results show that 28 out of the 34 LREs from this category occurred when the participants comment or edited on each other's section as shown in Google Docs revising history, or when the participants spotted the errors on the screen. Here is an example when Chris (the NS) spotted Ming (the NNS) typing and revised her expression.

Example 1 (Interaction from Pair 6) Ming: ((*typing*)) We would like to discuss uh::: what has (.) what have already-Chris: >what is already being done< <(taking over the typing) what is already being done,> because it is not stopped. It's. Ming: ((*taking back the typing*))=being done, whether it is. Whether it needs improvement¹.

From this example, we could see how the Google Docs platform provided the pairs with a shared platform on which they could work together. The visual collaborative platform helped the participants keep track of the partner's writing process and give more immediate feedback to their peers. Since "'s been done" and "is being done" are pronounced similarly in oral version, the written version helped Chris spot the error that Ming made.

4.1.2 Lexis-oriented LREs (LO-LREs)

Those segments in the collaborative dialogue that dealt with word choice, word meaning, or alternative expressions of the same idea were categorized as Lexis-oriented LREs. This kind of LREs more frequently occurred during the brainstorming stage before they started new paragraphs. Here, Jung (the NNS) and Ben (the NS) negotiated the word "ramp."

Example 2 (Interaction from Pair 1) Jung: You know in the entrance there is this board coming up and down [th-] Ben: [that's] that's a ramp as well.

In the above example, Jung described the concept she saw in real life, and Ben gave her the correct reference. This is one of the typical LO-LREs that occurred in the writing task, in which one of the participants (normally the NS) helped the other with vocabulary or expression. In some cases, the pairs might spend a longer time negotiating a certain expression or a certain concept. Here is an example when Jung (NNS) proposed that providing "nursing home" for the disabled and Ben (NS) suggested that "assisted living facility" might be more appropriate after he realized what Jung actually referred to by "nursing home."

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Example 3 (Interaction from Pair 1) Jung: but it's not for the elderly, it's for disabled people Ben: mmhmm, right. So it's that。 (.) So you were the one who suggested nursing home. Do we think of elderly as disabled? Jung: But isn't a nursing home for the takecare services. For elderly only? Ben: (.)O::h Jung: =I meant it by like taking care of them like the disabled people. Ben: Okay. Yeh, a nursing home is for elderly I think. Jung: okay. What do we call that? Ben: Assisted living facilities. Something like that. Jung: Okay then. The other one。

The example showed how the word choice interfered Ben's understanding, and how both the participants negotiated to come up with a less misleading word in the context. Actually, the word choice here was neither right nor wrong. "Nursing home" can refer to any facility where people receive long-term care, so the NNS was actually correct as much as the NS. This example shows that not all the feedback from NS in the LREs is the perfect resolution. Rather, the feedback could be seen as an additional option of lexical choices.

4.1.3 Mechanics-oriented LREs (MO-LREs)

LREs dealing with spelling, pronunciation, and punctuation were categorized as Mechanics-oriented LREs. A total of 23 MO-LREs occurred during the six pairs' writing tasks. Here is an example when Megan (NS) revised the punctuation when reading out Mo's (NNS) text.

Example 4 (Interaction from Pair 4)

Megan: ((*reading the NNS's section*)) In addition, this understanding will make other more-<u>others</u> you should have uh(.) 's' . others. >>more receptive to knowledge about the kinds of disabilities that people face, the need for structures to be put in place to aid in living with disabilities<< (.) and-((*laughs*)) let's put a= Mo: =[comma] Megan:[comma]. Yes. ((*back to reading*)) And how these structures work best so they can act—I don't

really think here you need a comma. >I don't think that one is necessary< ((*back to reading*)) that will not impede the effect- effectiveness of new structures= Mo: =Do you want to cut here and make a new sentence? Megan: ye::h

This example shows how Megan provided Mo with some suggestions on Mo's ways of using commas and structuring the sentence. She also added "s" after the plural noun. However, spelling errors were fewer than other errors because of the automatic spelling check of the Google Docs platform.

4.1.4 Written suggestions and comments

In addition to the oral dialogue, Google Docs provided tools for editing, suggesting, and commenting that allowed the peers to give LREs in written form. Both the Google Docs revising history and the screen recording documented examples of the peers suggesting history. Table 2 shows the written revision Ben gave to Jung during the writing task.

First version of Jung's text	Ben's suggestions on Jung's text		
To begin with, people with disability should	To begin with, people with disabilitiesy should		
have equal right to have access to public build-	have equal right to have access to public build-		
ings and transportation. The government	ings and transportation. The government		
should make legal requirements that all public	should make mandatelegal requirements that		
transportations are safe and accessible for	all public transportations are safe and accessi-		
every passengers, including those with wheel-	ble for every passengers, including those with		
chairs and guide animals. These will include	wheelchairs and guide animals. These will in-		
ramps on public buses that allow wheelchairs	clude ramps on public buses that allow wheel-		
to take on and off at stops, and grooves on the	chairs to get take on and off at stops, and		
floors of metro stations that guide blinds to	grooves on the floors of metro stations that		
their destinations. Moreover, all employees of	guide the blinds to their destinations. Moreo-		
those public transportation should be aware of	ver, all employees of those public transporta-		
the safety regulations and how to help those	tion should be aware of the safety regulations		
people when necessary	and how to help those people when necessary		

Table 2. A comparison of Jung's original text and Ben's revising suggestion

Note that Ben gave several suggestions on the form and vocabulary in the above excerpt, such as replacing "the legal requirements" with "mandate" and "take on" with "get on" and deleting "s" from "every passengers" and "the blinds." The former changes are categorized as LO-LREs while the latter ones are FO-LREs. This passage shows how the written text complemented the collaborative dialogue when participants brought about LREs.

LREs in the transcripts were analyzed for form (grammar), lexis and mechanics. The quantified values of the LREs are presented for each pair below.

Pair	Form	Lexis	Mechanics	Total words	Composition time (minute)
1	7	10	3	508	65
2	0	9	1	315	42
3	8	6	1	383	53
4	7	11	4	478	73
5	8	13	6	309	45
6	4	15	8	456	72

Table 3. Type and frequency of LREs for the six pairs

According to the audio and screen recordings, the FO-LREs and MO-LREs appeared much more on the text than in their collaborative dialogue, where the lexis LREs appeared the most.

4.2 Questionnaire responses

The participants' responses to the questionnaire helped reveal their language learning profile and their perception of using the Google Docs platform for collaborative writing. Descriptive statistics and percentages for each answer can be seen in Table 4. The 17 statements aimed to address three constructs: self-assessment of writing skills (Q6, Q7), connection to own learning (Q2, Q3, Q8, Q11, Q13, Q14, Q15, Q16), and ideas about collaborative writing (Q1, Q4, Q5, Q9, Q10, Q12, Q17).

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Table 4. Descriptive statistics and percentages for participant ratings(1 = Strongly disagree, 5 = Strongly agree)

	NS		NNS			Significance of difference (p)
Questionnaire items	Mean			t		
1. It took me more time to finish the task because of using Google Docs	1.50	.5477	2.00	1.0955	-1.000	.341
2. I felt comfortable while editing my peer's work	3.67	1.0328	3.67	1.0328	.000	1.000
3. I learned new things while reading and editing my peers' contributions	3.50	1.6432	4.33	.8165	-1.112	.292
4. The goal of the pair writing activity was to learn from each other	3.67	1.2111	4.00	.8944	542	.599
5. The goal of the pair writing activity was to make the essay more easy for readers to understand	4.17	1.1691	3.83	1.1691	.494	.632
6. I'm a confident writer in English	3.83	1.4720	2.67	.8165	1.698	.120
7. I'm very articulate when I write in English	3.67	1.3663	2.83	.7528	1.309	.220
8. The use of Google Docs helps me interact more with my partner(s)	4.17	1.3292	4.17	.4083	.000	1.000
9. I often check the previous changes before I edit on Google Docs	3.00	1.6733	3.00	1.5492	.000	1.000
10. Because of using Google Docs, my groups are able to come to an agreement faster than face-to-face	3.17	1.1691	3.17	1.1691	.000	1.000
11. Contributing to the Google-Doc writing tasks helps me write better essays in the classroom	3.50	.5477	3.67	.8165	415	.687
12. Overall, I had a positive experience with writing in groups online compared to face-to-face	3.83	1.1691	3.50	1.0488	.520	.614
13. Doing assignments collaboratively on the Google Docs enables me to study more regularly	3.50	1.0488	3.17	.7528	.632	.541
14. Doing assignment collaboratively on the Google Docs enables me to evaluate my own performance	3.50	1.0488	4.33	.5164	-1.746	.111
15. Doing assignment collaboratively on Google Docs helps me learn from my own mistakes.	4.00	1.0955	4.50	.5477	-1.000	.341
16. Writing with others on Google Docs helps me to improve my writing skills	3.83	.9832	4.50	0.5477	-1.451	.177
17. In general, I like writing in groups for course papers/essays	3.33	.8165	3.33	1.2111	.000	1.000

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4.2.1 Self-assessment on writing skills (Q6, Q7)

According to the results, the two groups showed greatest discrepancy in "self-assessment" category. Most native speaking participants agreed that they were confident in English writing and that they were articulate when writing in English. In contrast, the non-native speaking participants stayed neutral to these two statements when they assessed their own writing skills.

4.2.2 Connection to own learning (Q2, Q3, Q8, Q11, Q13, Q14, Q15, Q16)

According to the descriptive statistics, the non-native participants showed stronger agreement on most of the statements (Q2, Q3, Q11, Q14, Q15, Q16) under this category. These statements indicate the benefits they gained from the peer feedback and also using online collaborative writing systems. It suggests that the group member with relatively lower proficiency might benefit more from the collaborative writing task.

4.2.3 Ideas about collaborative writing (Q1, Q4, Q5, Q9, Q10, Q12, Q17)

The two groups of participants did not show a significant discrepancy towards the statements under this category. The results showed an overall positive attitude towards collaborative writing and participants said that collaborative writing did not slow them down in finishing the essay. It helped them to reach agreement more conveniently and was good for course papers/essay writing.

However, independent t-test between the two samples (NS and NNS groups) showed there was no statistically significant difference (p > .05) between the two groups even on "self-assessment" and "connection to their own learning" categories, where there were discrepancies in their mean values. Since that sample size plays an important role in the p-value (Larson-Hall, 2012), we might consider that the statistically non-significant result (where the p-value is above .05) is the result of the small sample size of twelve participants.

4.3 Interview data

The interview protocol (see Appendix C) concerned two major themes: the interaction of this specific writing task, and their perceptions of collaborative writing in general. Many of the participants made similar comments in their interviews. I examined the themes and categorized the comments made by participants into each. The response can be categorized into three themes: a) learning opportunity in collaborative writing; b) factors that influence the interaction in collaborative writing; and c) perceptions towards NS and NNS relationship during collaborative writing.

4.3.1 Learning opportunity in collaborative writing

The results showed that NNS generally perceived more learning opportunities than the NS participants. The results are consistent with the survey data that less proficient learners benefit more in collaborative writing. More specifically, several NNS participants pointed out that they had learned mostly some vocabulary and the expression and the function of some punctuation during the writing task. This result is not surprising, since they only worked on a single task for a short amount of time. Vocabulary might be more likely for them to recall without prompts in the post-task interview.

The following examples showed how Taro from Pair 5 negotiated with Kate on some vocabulary and how he recalled this learning opportunity in the later interview.

Example 5a (Writing interaction from Pair 5) Taro: the accessibility of the bathroom Kate: yeh yeh yeh Taro: Slopes [and -Kate: [Ramps] Taro: (.) Ramps? Kate: Ramps. Like to go up. Taro: >ah ah ah< (.)it's called the ramps? Kate: yeh yeh yeh Taro: not slope? Kate: not stairs. Just ramps.

In the above dialogue, Kate pointed out that "ramp" might be more appropriate than "slope" in this case. And the follow-up interview showed that Taro had taken up the feedback from this Lexical LRE.

Example 5b (Interview with Taro from Pair 5, IR=Interviewer) IR: Did you learn something from your partner's feedback that you think will help your writing? Taro: Y:es IR: Can you give me some examples? Taro: Kind of uh vocabulary. Kind of "ramp" IR: A ramp. Taro: Yes, not slope. IR: Ah I see. ((*a different point of the interview*)) Taro: these vocabulary. And sometimes <u>good</u> sentences. You know those sentences that look more beautiful.

In the interview, Taro reported that collaborative writing not only gave him the chance to learn more accurate vocabulary, but also better sentences and expressions. On the other hand, some NS participants also mentioned that they learn from NNS peers on some ideas, and organization of the article. However, NS mentioned the learning opportunities much less than the NNS participants. Here is one example showing how Chris benefited from his NNS partner's thinking style during the writing stage.

Example 6 (Interview with Chris from Pair 5, IR=Interviewer) IR: Did you learn something from your partner's feedback that you think will help your writing? Chris: For me it was uh (.) thinking(.) Ming often referred back to the question, and that's nice. So it kind of gets me back on track to the topic.

In the above example, Chris pointed out that his partner had kept him on the topic during the discussion. This example, as well as other interviews with NSs, showed how NNS partners could provide useful feedback on ideas, structure and organization of the essay.

4.3.2 Factors that influence the interaction and individual contribution in collaborative writing

In the interviews, participants brought up that some factors that would influence the dynamic of the interaction. These factors included the relationship between the two participants, the partner's perceived openness to corrective feedback, and the perceived authority of the person who gave the feedback. Here is an example when Chris talked about how language can influence his acceptance of the feedback given to his second language in the interview.

Example 7 (Interview with Pair 6, IR=Interviewer) IR: so the relationship is really important. Chris: <u>Really really</u> important (.4) but you know there is exception to that. When somebody is my teacher, my Chinese teacher, and they corrected me-Ming: AUTHORITY Chris: =the authority part. That changes it. Right?

In the above example, Chris mentioned that the relationship between the peers can influence the dynamic of the interaction in writing. But if one has the authority over the other on the language use, the interaction might also work well no matter how close the relationship is. Chris and Ming had been a couple for a long time when they participated my study. As proficient in English as Ming was, she admitted that Chris was better at writing, and she usually asked his opinion when she wrote

course papers. A counter example to their collaboration might come from Junko and Beth in Pair 3. Junko reported that she was overly dependent on Beth, because she felt Beth was more familiar with the topic and language. Beth reported the same in the interview, but said she had tried to avoid totally dominating the writing by frequently checking with Junko and asking her opinion.

In addition to the factor of relationships, several participants also mentioned that the suggestion tool in the Google Docs platform also allowed them to avoid direct conflict on the correction. These participants were fond of the suggestion tool, because it wouldn't erase what the partner had written but meanwhile highlighted the revision to the partners.

Example 8 (Interview with Jung (NNS) from Pair 1, IR=Interviewer) IR: Did you feel comfortable changing or editing your partner's work? Jung: yah it's just suggestions(.) right? ((*laugh*)) whether or not accepting them is his choice.

In the interview, Jung mentioned that she was very comfortable making changes to the text with the suggesting tool, which gave her partner the chance to accept the revision critically. I noticed that almost all participants who wrote on their own laptops gave suggestions instead of direct correction to their partners' texts, unless the correction is made under the oral consent from the partner. For instance, when Kate noticed there were many typos in one of Taro's paragraph, she asked if she could directly change his text. With Taro's consent, she revised that part directly under Taro's observation. Chris (NS) from Pair 6 also pointed out that the suggestion tool was very useful; he even said the platform should also include some tools to record voice or video for your writing partners, so they would know what you were thinking when you made the suggestion or revision. The participants were fond of the less confrontational or appropriating but more informative feedback from their partners on the Google Docs platform.

4.3.3 Perceptions towards NS/NNS relationship in collaborative writing

Interestingly, three NNS participants mentioned that they wouldn't pay as much attention to their grammar as when they were working with other non-native speakers. They said they felt more secure about their grammar, because native speakers would catch their grammar errors and point them out, whereas when working with other NNS peers, they felt they shared responsibility for checking grammar according to their proficiencies. The example below showed how Jung (NNS) would treat her own grammar more leniently when she worked with a native speaker.

Example 9 (Interview with Jung in Pair 1, IR= Interviewer, IE = Interviewee) IR: how do you think working with NS and NNS different? Jung: Yeh, sure. Like when I'm working with Native speakers, I usually don't care about the grammar or mistakes that I might make. Because I know for sure that they might change ((*Laugh*)) IR: ((*laugh*)) Jung: right? IR: Uh ha Jung: Like this grammar thing. And when I'm writing with non-native speakers (.5) I guess (2) well (.) I think we both need to check with each other, for grammar and sentence structure, because we both are not native speakers.

While Jung stated that she would be more careful with grammar checking if she worked with other NNSs, some of the participants also addressed how the power relationship between NS and NNS would influence their interaction in the collaborative writing. In the interview with Taro, he mentioned that he didn't like those NSs who sometimes might be dominant in the project and merely assign the tasks to the others. And also one NS participant from another pair mentioned how she would have been even more dominating, if she hadn't frequently reminded herself it was a collaborative writing task. Many participants, either NS or NNS, perceived the power relationship in the writing process.

On the other hand, two native speaker participants reported that they avoided correcting every error their partners made. Here is an interview with Kate (NS) showing how she avoided direct correction.

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Example 10 (Interview with Kate from Pair 5, IR=Interviewer) IR: Did you feel comfortable changing or editing your partner's work? Kate: I felt more comfortable changing his typo than correcting his grammar. So— IR: Did you find a lot? Kate: There were not <u>a lot</u>. There were <u>some</u>. But sometimes I would do was I wait for him to get further (1.0) and then I will go back to change some grammar. So it's not right in front of his face.

Like Beth from Pair 4, Kate said it was impossible to correct all the grammar errors her partner made, so she just corrected the major linguistic errors that would have interfered with understanding, in order to meet the basic requirements of the writing task.

5 Discussion

5.1 Research question 1: What are the Language-related episodes (LREs) of native and non-native dyads like in the course of collaborative writing?

The results of the writing tasks show that the collaborative composition process stimulated mostly FO-LREs and LO-LREs and some MO-LREs. Most of the LO-LREs occurred during the collaborative dialogue, where the participants perceived the gap in their meaning producing, and then negotiated the meaning to come up with the more appropriate expression (Examples 2 and 5a). In contrast, most of the FO-LREs occurred in the written text when the participants commented or edited each other's section, or when the participants spotted errors on the screen and gave their partners the oral feedback. These results are aligned with Storch's (2013) study, in which Storch found that participants generated more oral LREs.

The synchronous online writing platform provided the writers with more updated information on the text than the asynchronous platform so they caught up with the errors and made revisions more easily. They caught up with the focus of their LREs quickly by watching the activities on the Google Docs platform. The suggesting and commenting tool in the Google Docs platform provided the participants a more convenient way of correcting their partner's text, since it avoids direct deleting and it was up to the other side whether to take the revision or not. These functions have encouraged less assertive NS participants like Kate (see Example 10) and NNS participants like Jung (see Example 8) to give revision suggestions to their partners. Additionally, the Google Docs platform has provided participants with visible interactions by keeping track of their revision history and group discussion, which was lacking in traditional collaborative writing courses in the previous studies (Bradley et al. 2010).

The NS participants avoided correcting every single error they spotted their partners make and just revised those major errors in order to meet the requirements of this writing task. In terms of word choice and lexical suggestion, NS usually checked and gave feedback to the words prompted by NNS to make sure they were talking about the same concept (for instance, Examples 2 and 3). The similar results had also been found in Yeh's (2014) study where students clarified their linguistic misconceptions and received immediate feedback to their writing problems through text-based synchronous communication. The collaborative activities from pool knowledge have acted as an enabler to encourage learners to produce more accurate texts (Wigglesworth & Storch, 2009).

5.2 Research question 2: How do students perceive group work in terms of learning opportunities and collaboration?

During the interview, most NNSs recalled that the group work provided them the chance to learn more accurate vocabulary and expression. In contrast, only some of the NSs reported having learned from their NNS partners, in situations limited to organization or ideas or thinking styles. This result confirms the survey data that the less proficient learners benefit more from collaborative writing. Many participants, both NSs and NNSs, perceived the power relationship in the writing process. This power dynamic could be attributed to their familiarity with the topic, the proficiency in the language, or cultural background and personality. The partner with lower power, for example, with NNS status, or a lack of knowledge of the topic on disabled persons, tended to be dependent on the higher powered partner. In terms of language accuracy, the same NNS participant claimed to be more careless with their grammaticality when working with a NS than with a NNS. The notion of power relationship had been mentioned by participants like Taro and Beth. While Taro said he felt negatively when an NS dominates a group project telling what NNS participants have to do, Beth also felt that sometimes NSs have to "take care of" the NNSs in the group. The power differences have been seen in other studies of NS-NNS collaborative writing (Cheng, 2013; Leki, 2001; Morita, 2004; Zhu, 2001), so we need to think about what we can do to make sure it is a positive experience for both partners.

In addition, Google Docs provided a more convenient way for the participants to provide feedback. Most participants were fond of the suggesting tool, which avoided direct deletion of the text and also left it to the partner whether or not to take the revision. In this way, the participants avoided direct confrontation and saved their partners' ownership of their own text. In general, the participants preferred less confronting but more informative tools to build up their feedback, such as the suggesting tool, and recommended audio notes attached to some revisions explaining why they need to change this way.

Furthermore, the dynamics of the collaboration has also been influenced by the relationship between the writing partners. While the first and the last pairs felt completely comfortable to talk about the linguistics aspects of their content, the members from the other groups have sensed the inequity in different ways, from Junko's presumption about Beth's authority over the topic and the language, to Kate's reluctance to correct Taro's errors in his face.

6 Conclusion

The findings of the present study offer us a close look at the interaction between native speakers and non-native speakers during the writing process. This study also found that collaborative writing tasks could trigger LREs in lexical, grammatical, and mechanical items. Lexical LREs tend to appear in oral interaction, and the grammatical and mechanical items tend to take place in the written text. Discussion of LREs helps non-native speakers learn more accurate words and expressions.

The study also reveals that the participants' perception of collaborative writing was positive only when the power dynamic of the interaction was more balanced, instead of one dominating over the other. The power relationship is concerned with factors such as knowledge of the topic, language proficiency, cultural background, experience in group work, and openness to the correction. If the power relationship is not balanced, collaborative writing might not be as beneficial as researchers might expect (e.g. Leki, 2001).

The current study might provide some useful pedagogical implications. Firstly, the collaborative writing tasks invites more interaction if they are optional instead of compulsory ones, and if they allow students to choose their own partners. The study also shows that the relationship and the perceived partner's openness to correction are important factors that could influence the interactions of collaborative writing. Secondly, the Google Docs platform might be a suitable environment for the students to perform their collaborative project. The suggesting and comment tools provide them with a more comfortable way of giving feedback. Video or audio recordings might be useful for those who work asynchronously to know more details about the reasons why their partners have made the changes.

Nevertheless, there are limitations to the current study. Because some of the participants knew each other very well before the experiment, they shifted to work on the same laptop at some stage of the experiment, making it hard to tell from the revision log the contribution of each side by the word count in the final draft.

Factors such as personal relationship between participants in the same pairs, the background knowledge of the topic, and their writing styles as well as language proficiency, seemed to have had influence on the interaction during the collaborative writing. However, I was not able to access information that would have helped me rule out the confounding variables completely before the

research. Future studies might want to consider those factors in the analysis and come up with a more detailed background survey that can access more detailed information about the participants, such as their openness to correction in writing and their perceptions of their partner's openness to feedback during the writing.

Due to the small sample size, the results of this study might not be generalizable to other contexts. The small sample size might also be a factor in the lack of statistical significance in the survey results.

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Appendices

Appendix A

Questionnaire (Excerpt)

Students' Interactions and perceptions of Online pair writing Bozheng Liao, investigator MA student of the Department of Second Language Studies University of Hawai'i at Manoa (808) 304-0272 bozheng@hawaii.edu

Biodata:

- 1. Name: _____
- 2. Gender: _____
- 3. Major:
- 4. Level (Please circle one): Undergraduate / Graduate / Other_____
- 5. Years in English-speaking countries:
- 6. Your first language(s)_____; other language (s) you have learned:
- 7. Language teaching experience (years) in (language)
- 8. My English proficiency: a) Low b) Intermediate c) Advanced d) Native (or near-native)
- 9. Have you work on projects/assignments/papers with someone else on Google Docs before this project? a) Often b) Sometimes c) Very rare d) Never

Appendix B

Interview prompts

Interview guide for participants:

- 1. Could you please comment on your writing collaboration today?
- 2. Did you give feedback to your partner when you wrote together today? Did you feel comfortable changing or editing your partner's work?
- 3. Did you learn something from your partner's feedback that will help your writing? If so, could you give me some examples?
- 4. To what extent do you think the writing today was a collaboration of both of you? Why? Is it always the case when you write with someone else?
- 5. In the past, have you written papers/essays with native speakers of English on Google Docs? What about non-native speakers? If so, are those two experiences different? Why?
- 6. In the past, do you think you contributed enough in group writing? What do you think of other people's contribution?
- 7. In general, do you have any negative or positive comments on Google Docs collaborative writing? Why? Any suggestion for improvement?
- 8. In general, do you think writing with others helps your writing skills? In what way?
- 9. In collaborative writing, what factors do you think will influence the interaction between you and your partners? Your partners' personality, ideas, language proficiency, or else?

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Appendix C

Transcription notation

Jeffersonian Transcription Notation includes the following symbols (Jefferson, 1984):

Symbol	Name	Use
[text]	Brackets	Indicates the start and end points of overlapping speech.
=	Equal Sign	Indicates the break and subsequent continuation of a sin-
		gle interrupted utterance.
(# of sec-	Timed Pause	A number in parentheses indicates the time, in seconds,
onds)		of a pause in speech.
(.)	Micropause	A brief pause, usually less than 0.2 seconds.
. or [Sym-	Period or Down Arrow	Indicates falling pitch.
bol]		
? or [Sym-	Question Mark or Up Arrow	Indicates rising pitch.
bol]		
,	Comma	Indicates a temporary rise or fall in intonation.
-	Hyphen	Indicates an abrupt halt or interruption in utterance.
>text<	Greater than / Less than sym-	Indicates that the enclosed speech was delivered more
	bols	rapidly than usual for the speaker.
<text></text>	Less than / Greater than sym-	Indicates that the enclosed speech was delivered more
	bols	slowly than usual for the speaker.
0	Degree symbol	Indicates whisper or reduced volume speech.
ALL CAPS	Capitalized text	Indicates shouted or increased volume speech.
underline	Underlined text	Indicates the speaker is emphasizing or stressing the
		speech.
:::	Colon(s)	Indicates prolongation of an utterance.
((italic text	Double Parentheses	Annotation of non-verbal activity.
))		