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Developing linguistic strategies for source use among international undergraduate engineering students.

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OUTLINE

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LEARNING TO NAVIGATE ACADEMIC INTERTEXTUALITY



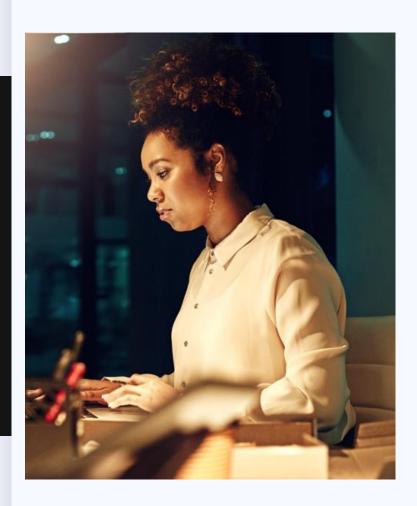
Engaging the voices of others in one's own writing.

A long and complex learning process (Pennington, 2010, Pecorari et al., 2012).

Mediated by the aspiring writers' prior intertextual experiences (Chandrasoma et al., 2004).

Challenges are increased when the novice writer needs to overcome linguistic and cultural barriers





What we know about this learning process:

It requires:

- Highly developed reading comprehension (McGinley, 1992; Spivey & King, 1989)
- Familiarity with synthesis writing (Spivey, 1997),
- A language proficiency that L2 novice writers are still in the process of developing (Baba, 2009; Grabe & Zhang, 2013; Yu, 2008)

A PEDAGOGICAL INTERVENTION



Intervention Context

A first-year program for L2 undergraduate students with a strong academic background who require additional support to develop their L2 academic literacy.

- 10 months of credit-bearing explicit instruction on academic literacy
- Content and Language Integrated Learning (CLIL) approach
- Systemic Functional Linguistics
- Task-based approach

Seven Weeks of Source Use Instruction

Purpose

Support the development of discipline-specific source use practices among a cohort of L2 novice writers enrolled in a first-year undergraduate engineering program.

Background

Evidence regarding inappropriate textual borrowing among engineering master's thesis (Eckel, 2011).

A view of intertextuality as a heteroglossic phenomenon or as a manifestation of the dialogic nature of all verbal communication (Martin & White, 2005).

Discourse Level **Pre-Writing Process** Linguistic Choices

Three Levels of Instruction

- 1. Conversations regarding source-use disciplinary practices characterizing them as tools used to engage academic writers and readers in the collective generation of knowledge.
- 2. Instruction on the pre-writing process that enable successful intertextuality:
- Evaluation and selection of reliable sources
- Organization of notes and bibliographic information.
- Use of software tools to facilitate that organization
- 3. Instruction on linguistic choices that help writers convey stance and claim membership in a community of academic writers in Applied Science (Mott-Smith et al., 2017).
- Use of textual shifts to generate paraphrased and summarized texts from notes.

THE STUDY

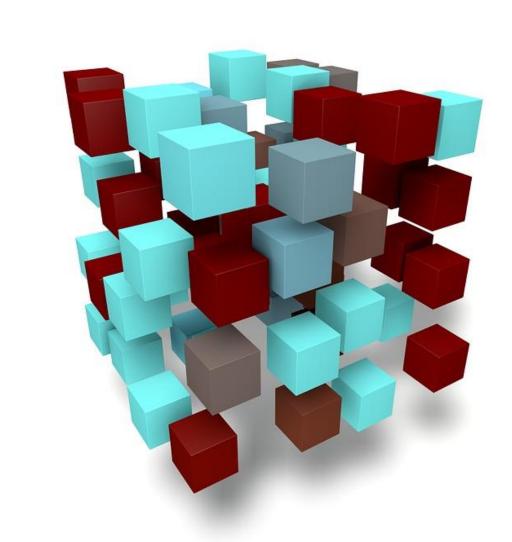
FIRST-YEAR ENGINEERING STUDENTS' INTERTEXTUALITY

PURPOSE AND RESEARCH QUESTIONS

Further our present understanding of L2 novice academic writers' beliefs about the role of published sources in their writing and their actual source use practices after being exposed instruction.

- How do first-year international undergraduate students perceive the role of source use in their writing after receiving explicit instruction on the subject?
- Is students' ability to recognize problematic source correlated to their perceptions of the role of source use in their writing? If yes, to what extent, if not why not.
- How did the participants' textual borrowing practices change over time during and four months after specific instruction on academic source?

RESEARCH DESIGN



PARTICIPANTS

- 6 participants: 18 to 20 years
- 3 of them identified as women and 3 as men.
- All participants in this case study identified Mandarin as their first language.
- Below band 6 in IELTS test

TEXTS

A descriptive report (Assignment 1)	A problem-solution text (Assignment 3)	Scholarly Research Report (IMRD)
Define and describe main features of a discipline-specific term.	Describe, and explain a discipline-specific problem/issue and present and evaluate a possible solution	Present the results of a term-long observation-based research project (campus-wide helmet use among cyclists) following the IMRD structure used in scholarly journals.
350-500 words	400-600 words	1200-1700
Submitted after 4 weeks of instruction.	Submitted after 3 months of instruction (by the end of term 1).	Submitted after 7 months of instruction (by the end of term 2).

Textual Analysis (Halliday & Matthiessen, 1999; Yasuda, 2015)

Textual Borrowing (word/clause)

Total number of clauses with borrowed material per text

Clauses with verbatim tokens

Rate of verbatim borrowed material per text.

Types of textual transformations used to quote sources.

Lexical substitution (synonyms, hypernyms or hyponyms).

Minor transformations (grammatical level) and deletions.

Major rank shifts: nominalizations and denominalizations.

Confidence in Writing	Pragmatic approach to writing	Understanding authorship
Top-down approach to writing	Knowledge about plagiarism	Bottom-up approach to writing

Survey: Student's Beliefs about their own source use skills.

An adaptation of the Student Authorship Questionnaire (SAQ) by Pittam and colleagues (2009).

6 dimensions

18 Likert-scale questions

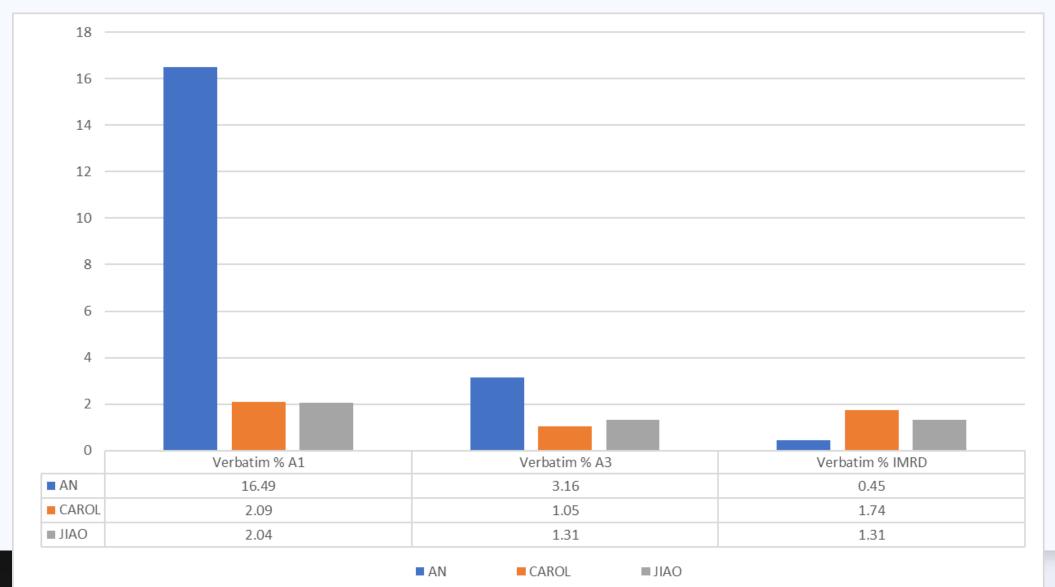
RESULTS AND DISCUSSION



PATCHWRITING

VERBATIM BORROWED MATERIAL RATE

Fig 1: Percentage of verbatim borrowed language per assignment



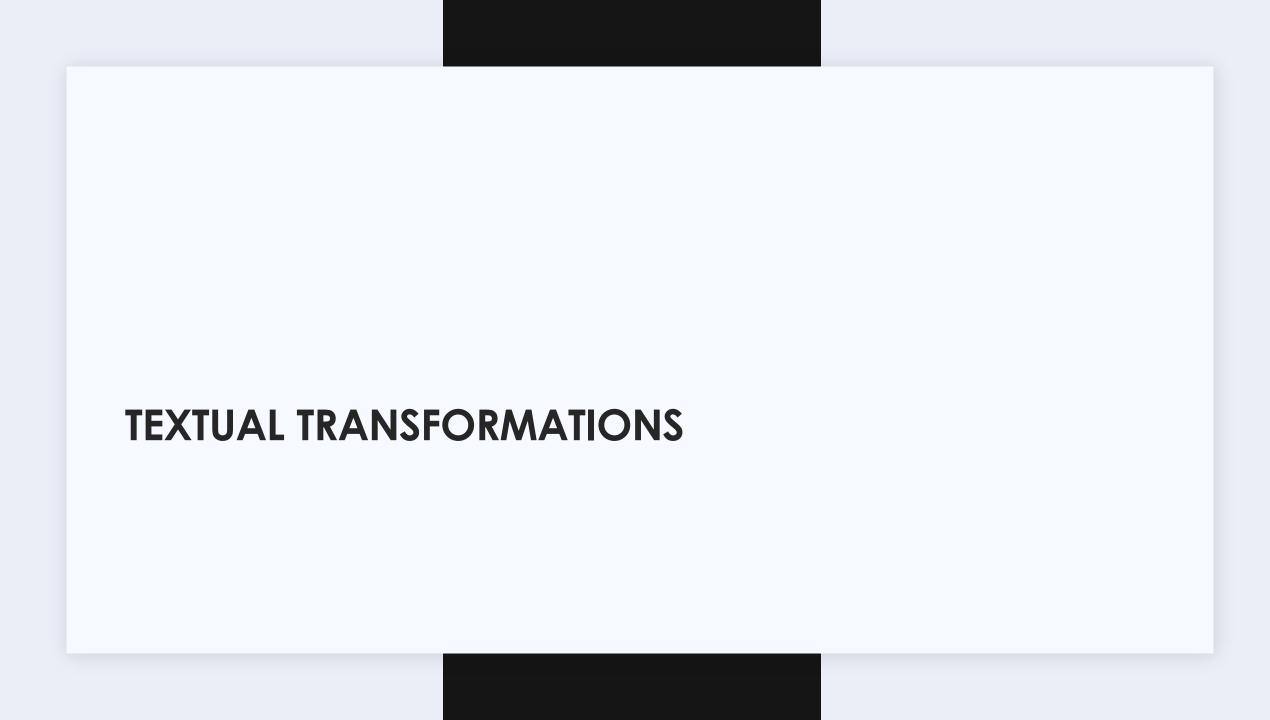


FIGURE 2: TEXTUAL TRANSFORMATIONS (AN'S CASE)

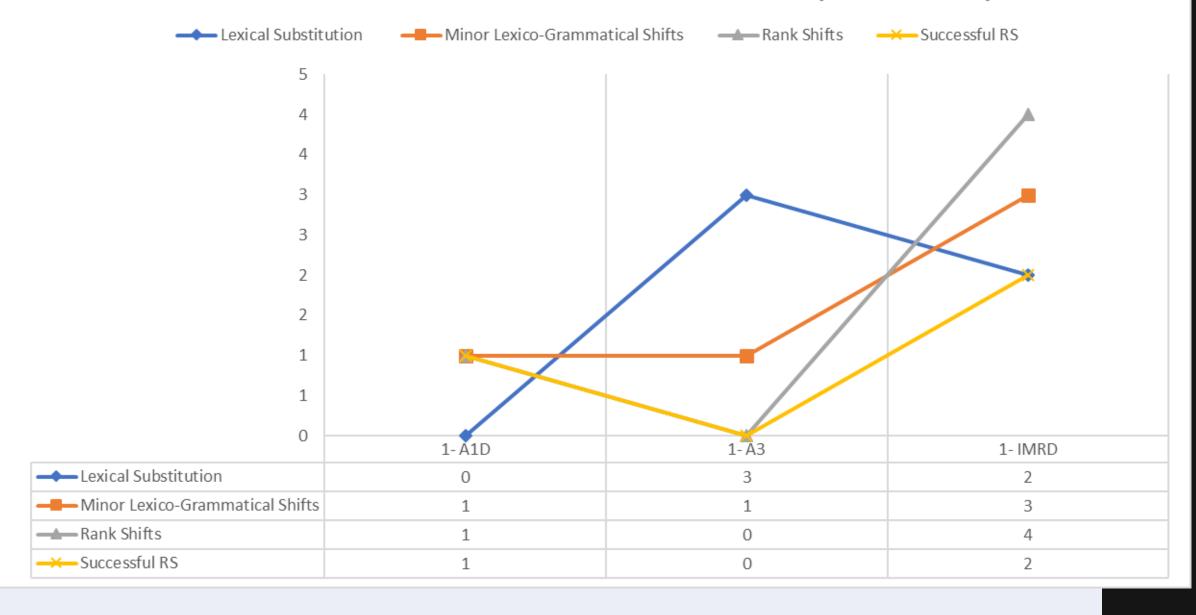
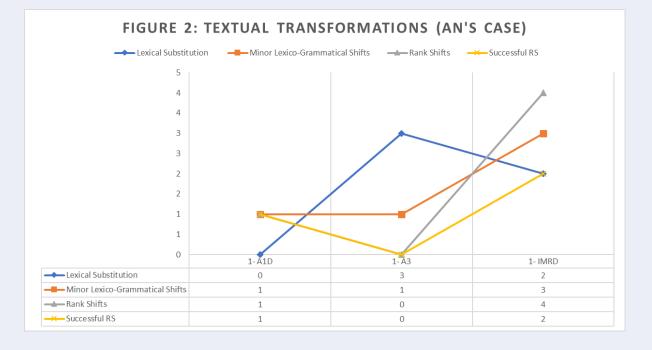
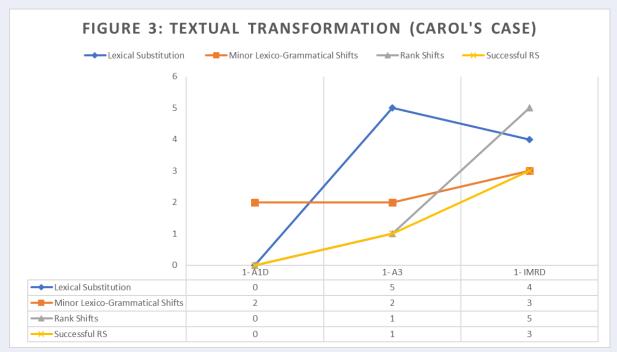
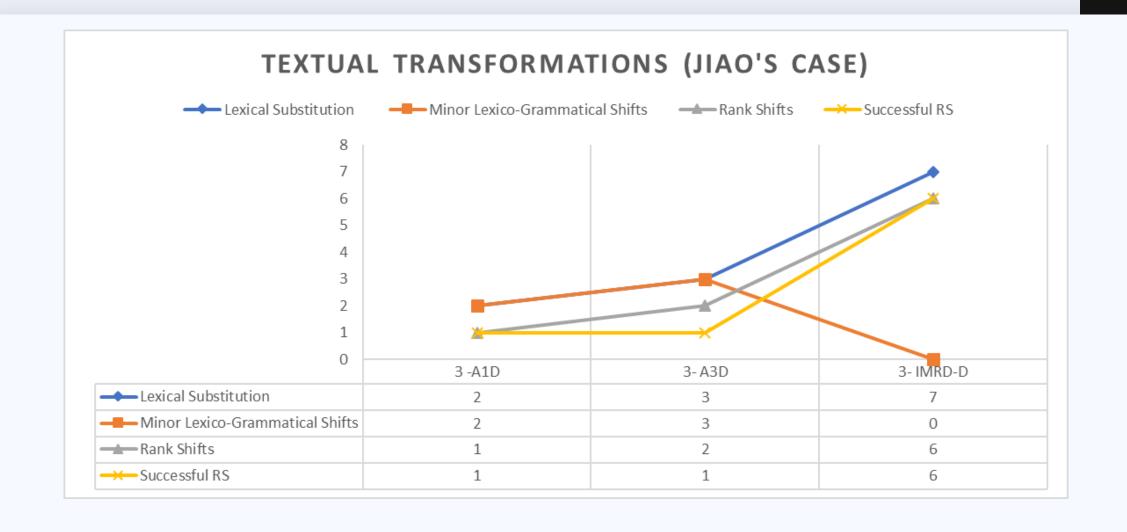


FIGURE 3: TEXTUAL TRANSFORMATION (CAROL'S CASE)









DISCUSSION

The path followed by these three learners shows that language development does not occur in a linear and straight progressive fashion, but is more likely to be represented as a system in which learners dynamically adapt to specific communicative needs (Larsen-Freeman, 2006).

The participants' level of confidence in choosing one or other textual transformation fluctuated through time.

Some common patterns in the increasing use of more sophisticated forms of textual manipulations to covey meaning seem to have emerged.

The analysis showed that the participants ability to apply acceptable forms of intertextuality had moved from the starting point, but was still a work in progress.

TRENDS IN THE SIX DIMENSIONS OF THE SAQ

Mean scores per dimension (41 participants)

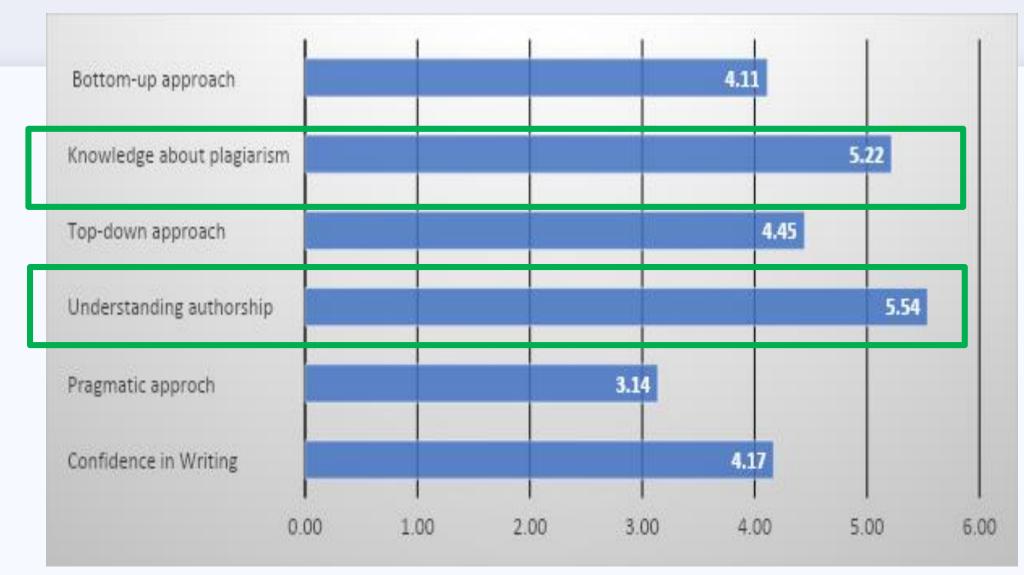


Figure 4: Trends in the dimensions of the Student Authorship Questionnaire (N=41)

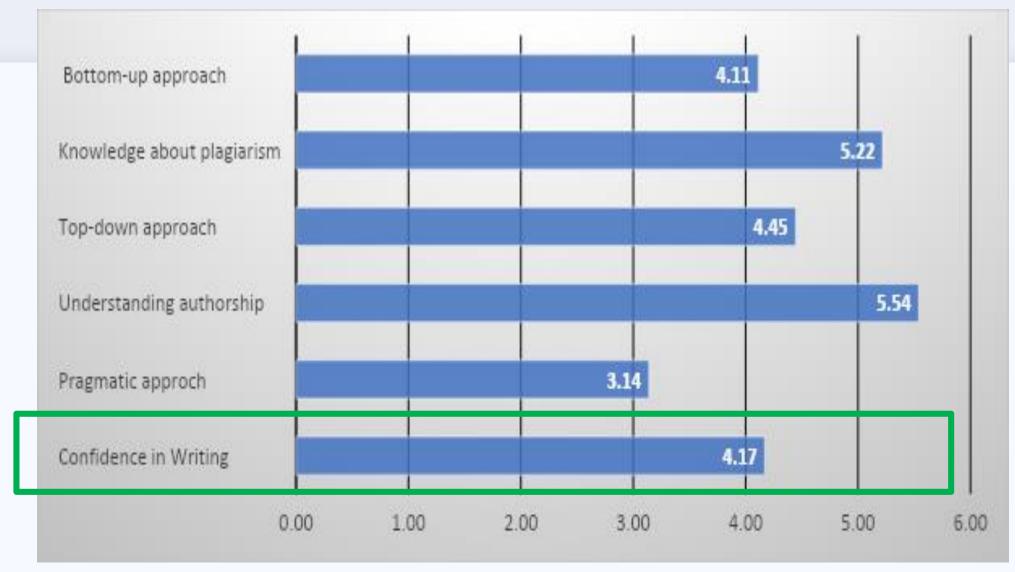


Figure 1: Trends in the dimensions of the Student Authorship Questionnaire (N=41)

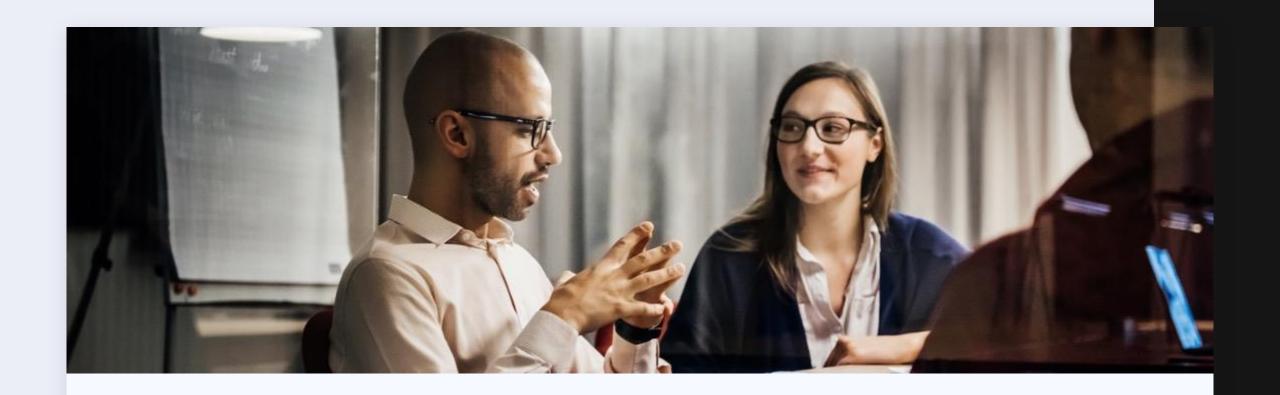
POSSIBLE INTERPRETATIONS

This variation in the responses suggests that the ability to recognize one layer of intertextual meaning does not necessarily account for the individual's overall level of sophistication to engage in academic intertextuality, which has previously been singled out as particularly difficult for novice academic writers (Angélil-Carter, 2014). However, the fact that some of the students had achieved a modest level of confidence in using multiple textual strategies gives us some hope regarding the potential effect of instructions.

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Q&A?

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