

6th Annual QE Community Data Challenge

Sunday May 3 to Sunday May 10, 2026

Cesar Flores, SMU Simmons School of Education

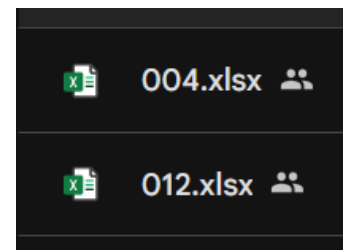
Eve Yi (Han), BLCU

Yan Zhuang, University College London

Szilvi Zorgo, Maastricht University

2. **Bring Your Own Data (BYOD):** Be part of a team that has brought their own dataset and is seeking collaboration to gain insights from fresh analysis and findings

Social interaction on MOOC forums



Explored data a bit

	A	B	C	D	E	F	G	H	I	J
1	thread_number	reply_depth	discussion_answer_id	parent_answer_id	clean_text	text_length	created_time	thread_preview	stratum	thread_length
2					The collaboration shouldn't end among the teachers it should be used during the school day among students, as well! Plan activities that give students the opportunity to work and collaborate together to learn and grow from each other. Collaborative learning has been shown to not only develop higher-level thinking skills in students, but boost their confidence and self-esteem as well.	385	2022-07-31 06:43:11	● The collaboration shouldn't end among the teachers it should be used during the ...	Dyadic	2
3	36	0	DEaciRCcEe2KXA5zGG17QQ		Good ideas	10	2022-08-08 13:51:14	4 Good ideas	Dyadic	2
4	56	0	WQv3xojVEeu8TRLTS18hVQ		This matter about make student's collaborative each other is very interesting. I agree with opinion that we need to make comfortable conditions for our student before collaborative instruction. and the the question is how to create conditions pleasant for our students? I do raise the same question. Even if we start with and introductory activity on padlet, how to encourage them to turn on their cameras? I do believe that seeing everyones faces would help to create a feeling of community.	270	2021-03-19 17:05:41	● This matter about make student's collaborative each other is very interesting. I...	Multi-3	3
5	56	1	pDhaY4otEeu1Ar6m9M78v	WQv3xojVEeu8TRLTS18hVQ	Sometimes its work: when students arrive i greet them individually, and check in with them	222	2021-03-21 10:10:20	4 I do raise the same question. Even if we start with and introductory activity on...	Multi-3	3
6	56	1	a9nkrYrzEeucvBIRrOD6Fv	WQv3xojVEeu8TRLTS18hVQ	about camera use :)	112	2021-03-22 09:46:00	4 Sometimes its work: when students arrive i greet them individually, and check i...	Multi-3	3
					Student collaboration can be very useful when doing large Stats projects, for example. Working as a team, students can discuss and decide together on the topic to research, what type of data to collect and how to represent this data. By negotiating on these things, students can get a better understanding on why some representing tools are better than					

“I felt that it is important to use a tool which is popular in the enviroment you're in. Where I'm from, facebook and instagram are quite popular but twitter and blogs, not quite so. Therefore whatever tool you use should be fitting to the students...”

- MOOC participant interactions
- Structured (tabular)
- Threaded (consisting of 1 parent per thread; $0 \leq$ nesting levels)
- “Metadata”: thread_number, reply_depth, discussion_answer_id, parent_answer_id, clean_text, text_length, created_time, thread_preview, stratum, thread_length

Explored possible RQs

Comparing MOOC posts that receive engagement from course participants vs. those that do not:
What are salient patterns in post content?

What is being communicated?

What type of social interaction is being enacted?

Possible aim:

Enhance engagement in MOOCs,
recommendations for algorithm

Explored possible grouping variables

Received engagement?

Is a parent?

Nesting level?

Total number of replies?

Character length?

Clarified QDT structure

Data provider ID	Age	Living area	Stanza ID	UID	Utterance	Code 1	Code 2	Code 3
Amy	27	Urban	1	75rdffsm	Lorem ipsum	0	0	1
Amy	27	Urban	1	75rdffsn	dolor sit amet,	0	0	0
Amy	27	Urban	1	75rdffsp	consectetur	1	1	0
Amy	27	Urban	2	75rdffsq	adipiscing elit	0	0	0
Amy	27	Urban	2	75rdffsr	Nam laoreet at	1	0	1
Amy	27	Urban	2	75rdffss	tortor quis porttitor.	1	0	0
Douglas	42	Rural	1	75rdffst	In pulvinar viverra	0	0	1
Douglas	42	Rural	1	75rdffsw	enim id aliquet.	0	1	0

Created sample dataset

- Low number of utterances (n=10)
- Low number of codes (n=3)
- Grouping variables of interest

Do we have a way of...

- distinguishing posts with engagement vs. no engagement?
- distinguishing threads (based on parent)?
- indicating which parent a child belongs to (post & replies form thread)?

	A	B	C	D	E	F	G	H	I	
1	text_length	created_time	stratum	read or unrepli	thread_number	reply_depth	thread_length	Original Post	Discussion Group	
2	385	2022-07-31 06:43:13	Dyadic	yes	36	0	2	Yes	DEaciRCcEe2KXA5zGGL7G	The collaboration shouldn't end among th
3	10	2022-08-08 13:51:14	Dyadic	yes	36	1	2	No	DEaciRCcEe2KXA5zGGL7G	each other. Collaborative learning has bee
4	270	2021-03-19 17:05:47	Multi-3	yes	56	0	3	Yes	WQv3xojVEeu8TRLTS18hV	Good ideas
5	222	2021-03-21 10:10:20	Multi-3	yes	56	1	3	No	WQv3xojVEeu8TRLTS18hV	This matter about make student's collabor
6	112	2021-03-22 09:46:06	Multi-3	yes	56	1	3	No	WQv3xojVEeu8TRLTS18hV	to create conditions pleasant for our st
7										I do raise the same question. Even if we
8	907	2023-05-09 13:16:09	E_Elaborate	no	1021	0	1	Yes	qU42205rEe2f_gpjj07RG	Sometimes its work: when students arrive
9	436	2024-03-25 11:30:30	E_Elaborate	no	1022	0	1	Yes	FX8EVuqbEe68UQ7VrQJAA	it goes without saying that nowadays coll
10	409	2023-02-24 23:20:28	E_Elaborate	no	1023	0	1	Yes	Oro9JrSZEe2f_gpjj07RG	discussions, pair or group-work, etc...;
11										if I try to make a case for how effective
12	1363	2023-03-13 14:12:34	E_Elaborate	no	1024	0	1	Yes	GaDeDMGpEe2f_gpjj07RG	whatsapp, we don't need tutorials to show
13										example is only for entertainment.
14	791	2019-09-04 03:38:00	E_Elaborate	no	1025	0	1	Yes	ZKFqm87FEemSaApDSRskK	Students collaboration is vital for their
15										directly access my students on the real t
16										What is the value of student collaboratio
17										personalities, and enhances their self-co
18										Cooperation is one of the most important
19										is one of the most important ways of corr
20										its kind, and therefore they do not make
21										with others, so the basis of education mu
22										childhood Until they grow up and become m
23										some basics for a good education. Which i
24										no bad feelings between each other.
25										Collaboration between learners are very e
26										and improve their camaraderie even though
27										by observing the presentation being enhan
28										ensure the submission and updates being d

Explored possible codes

ASKING_QUESTION
SHARING_IDEA
SHARING_EXPERIENCE

Codebook

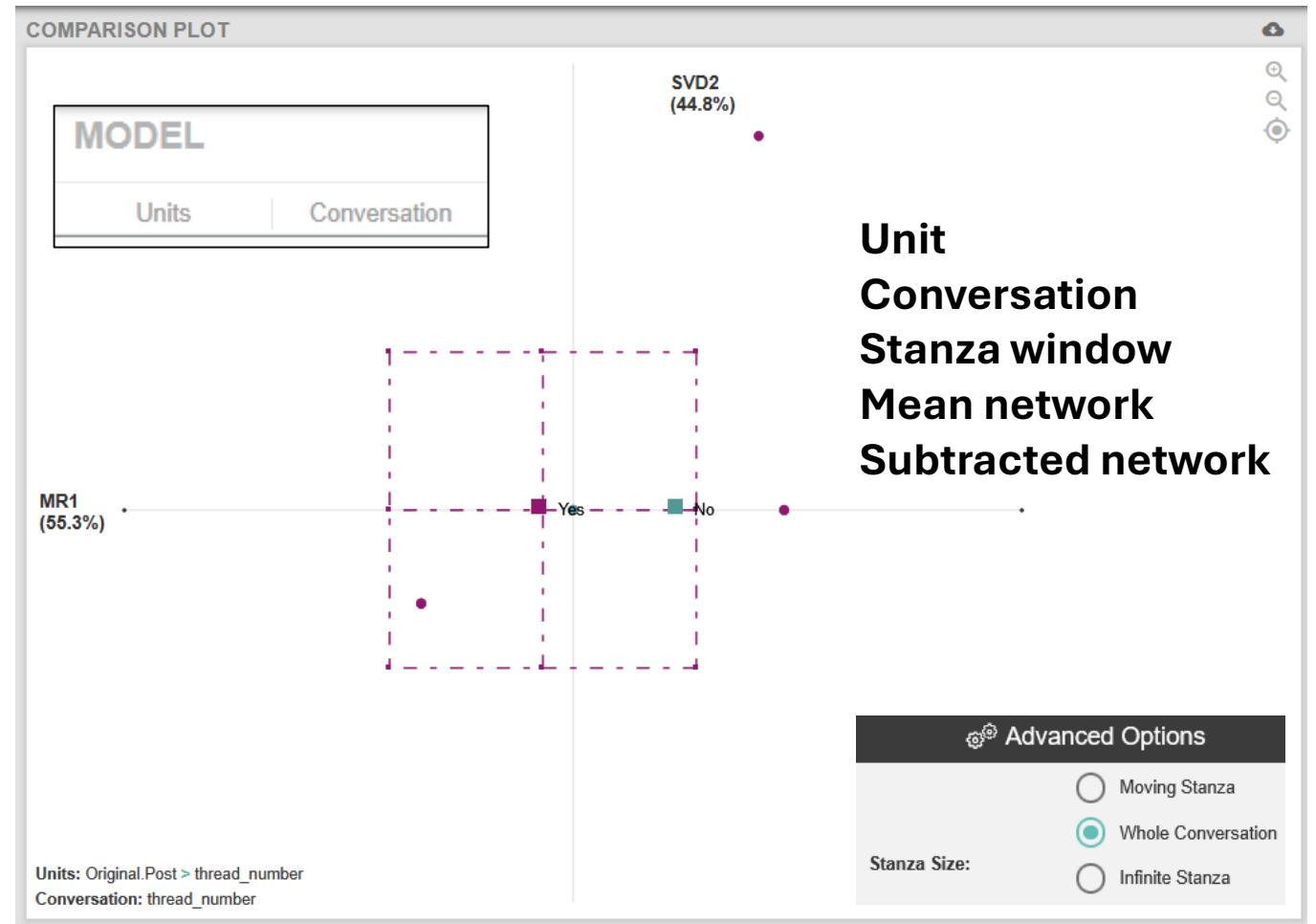
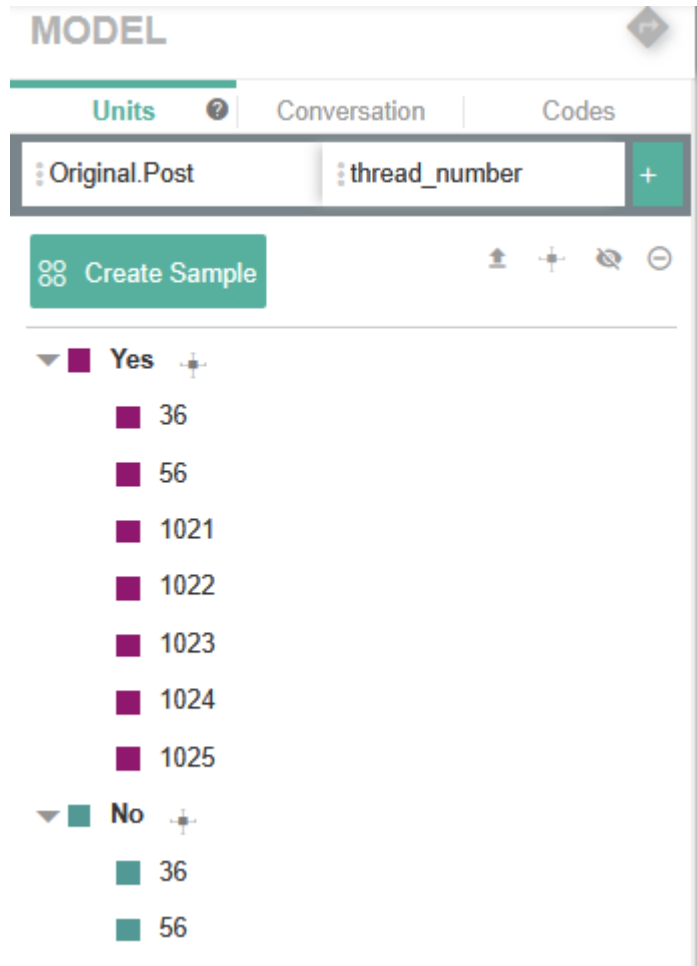
Code label	Description	Examples
Code 1		
Code 2		
Code 3		
Code 4		

Applied codes manually

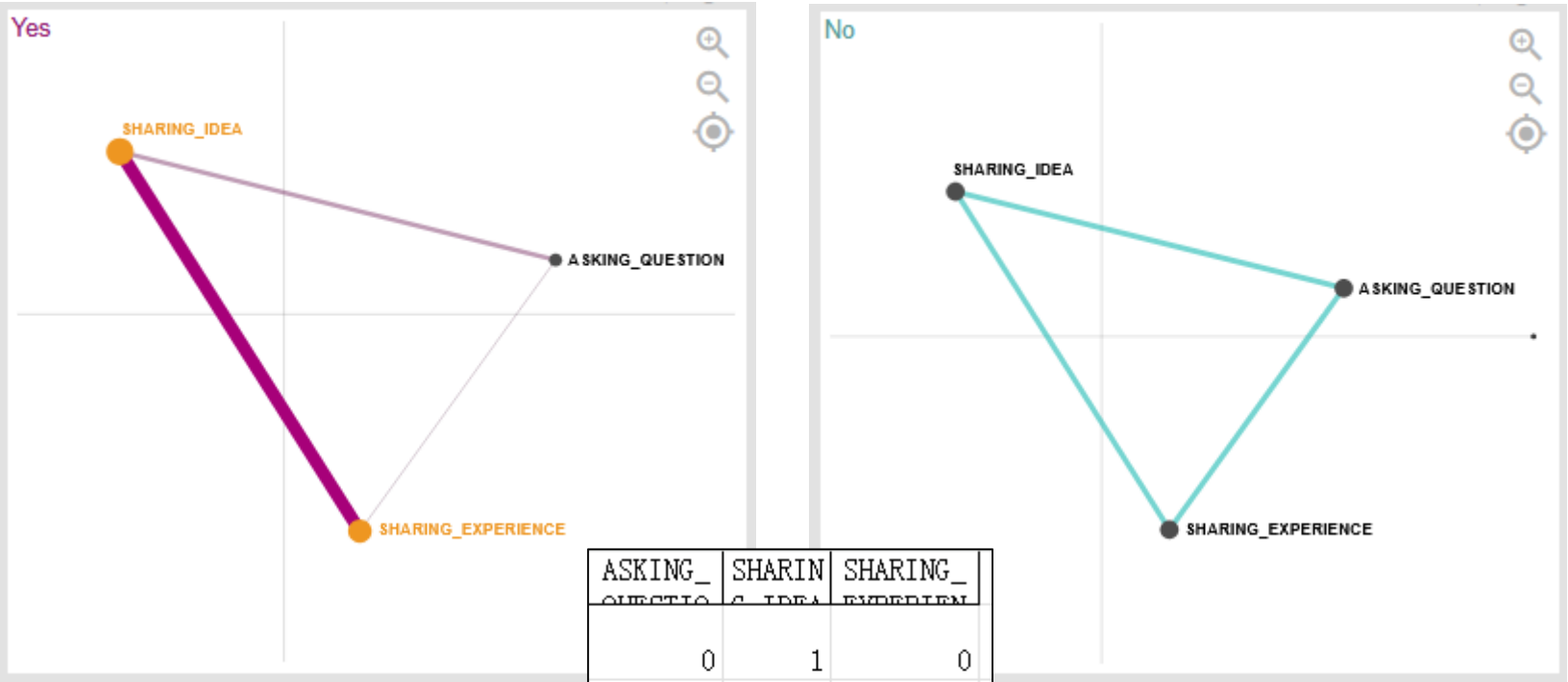
clean_text
students, as well! Plan activities that give students the opportunity to work and collaborate together to learn and grow from students, but boost their confidence and self-esteem as well.
that we need to make comfortable conditions for our student before collaborative instruction. and the the question is how
urage them to turn on their cameras? I do believe that seeing everyones faces would help to create a feeling of community. era use :)

ASKING_	SHARIN	SHARING_
QUESTIO	G_IDEA	EXPERIEN
0	1	0
0	0	0
1	1	0
1	1	0
0	0	1

Created model 0 from sample dataset



Created model 0 from sample dataset



ASKING_QUESTION	SHARING_IDEA	SHARING_EXPERIENCE
0	1	0
0	0	0
1	1	0
1	1	0
0	0	1

Co-occurrence/connection

Node/edge

Edge weight

Data view

Axes/dimensions

Node positioning

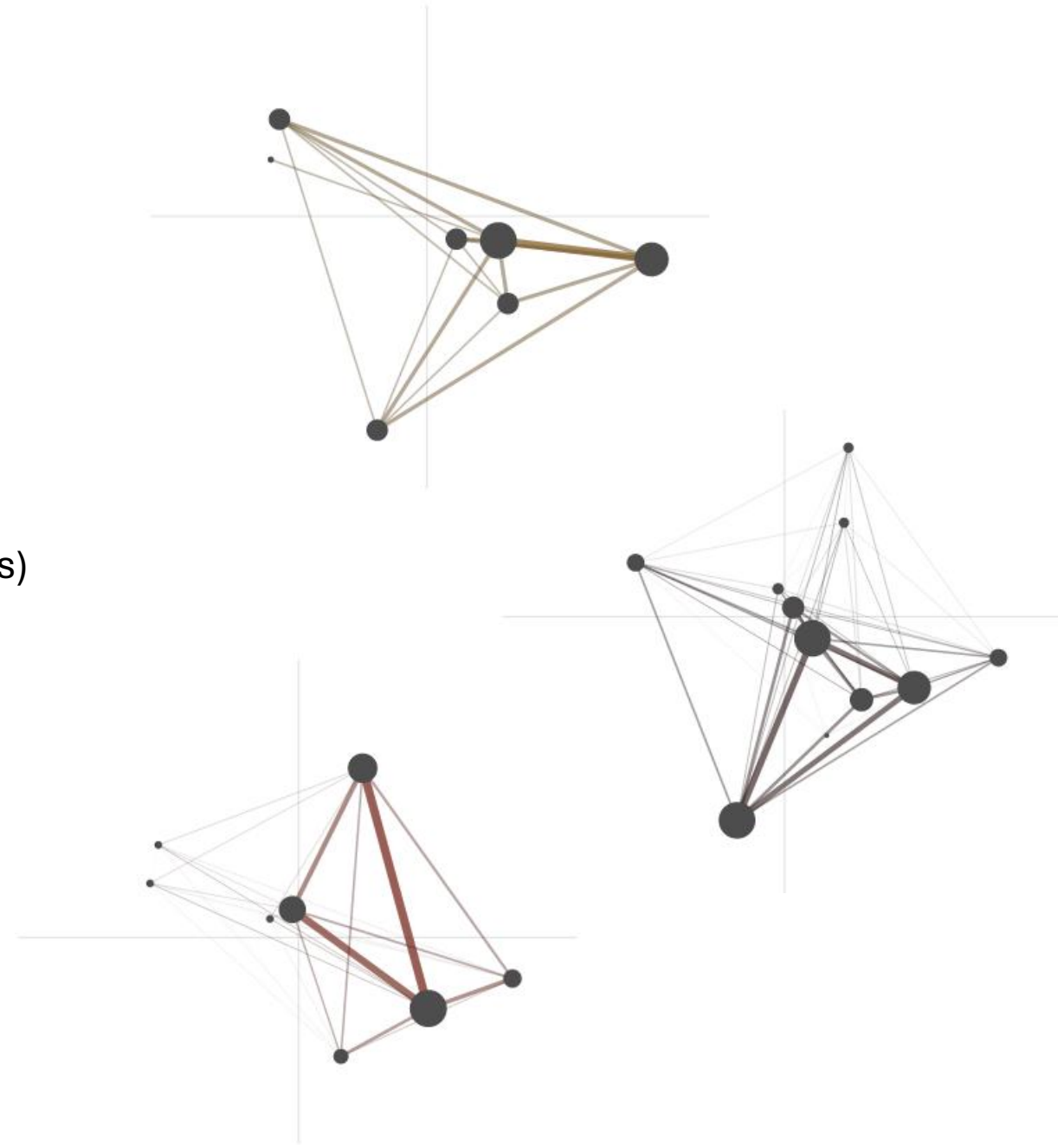
Brainstormed other models & future directions

Larger dataset

Curate to parents only?

Aggregate based on nesting level? (e.g., all first-level replies)

Other RQs and concepts of interest



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Thank you for the opportunity! 😊

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