

SCORE-UBE Mid-Year Data Summary

May 2020

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NETWORK ANALYSES

The SCORE-UBE summit aims to expand networks of persons committed to understand and find sustainability solutions to Open Education Resources (OER) as well as Diversity, Equity and Inclusion (DEI). All participants were asked to complete a survey prior to the summit in October, 2019 and during February 2020. Respondents were asked to indicate the nature of their relationship with all participants in the network by selecting response options which also included “I have professionally collaborated with this person” – where professionally collaborated is defined as actively engaging in cooperative work with another person. Growth of the SCORE network is then assessed by examining professional collaborations across individuals in the network at each time period – see Figure 1.

The list of network participants for the pre-survey were based on 35 individuals identified to attend the summit in October. Of these 35 participants, 3 were unable to attend any component. Three additional participants have collaborated with network participants and were added to the mid-survey. A large number of participants indicated some involvement with QUBES Hub and an additional cluster of participants were affiliated with Bates College. To explore network growth, the following color scheme was used:

● PI or Co-PI ○ Individual did not participate in the summit, ● Individual indicated some involvement with QUBES Hub, ● Individual is affiliated with Bates College, ● Individual has affiliation with Bates and QUBES, ● Other affiliation

Response rates were 74% at pre- and 31% in February. The low response rate for the spring administration of the survey may be attributable to participants becoming aware of the COVID-19 pandemic and increased stress with adapting to new policies and procedures which started to commence near this time period. The mid-network was created using the professional collaborations indicated at pre- and for those who completed the mid-survey. We use an undirected network model since it is assumed that professional collaborations would be mutual. The following metrics are included to examine network growth:

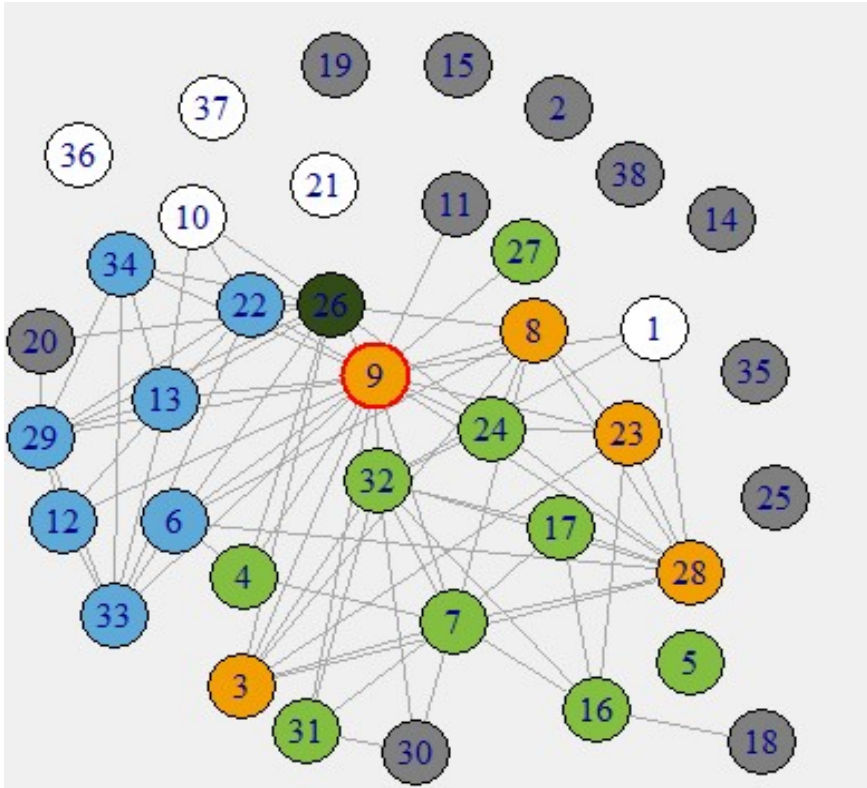
- **Degree of vertices** measures the number of adjacent edges for a node.
- **Edge density** is defined as the ratio of extant edges to the number of potential edges.
- **Cliques** indicates the number of subgroups (cliques) in a network.

The number of cliques in the network increased from 5 to 7 and edge density increased slightly (.115 to .155). Overall, the number of connections (or degree of vertices) increased:

	Min	25 th percentile	Median	75 th percentile	Max
October	0	0	4	6.75	20
March	0	1.25	4.5	8	23

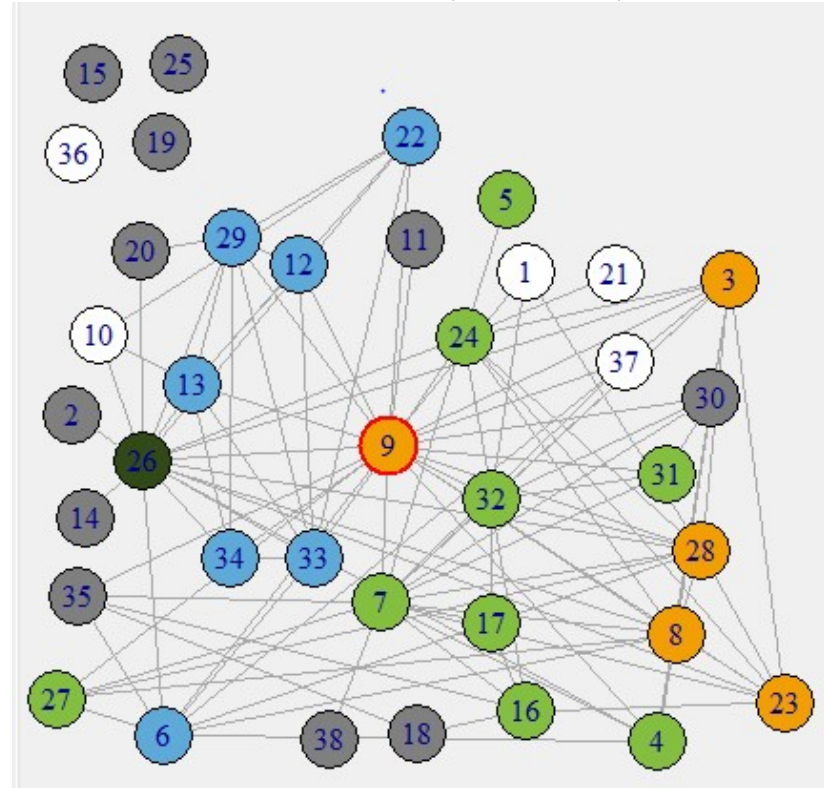
Figure 1. Professional collaborations across participants in the SCORE Network prior to attending the summit in October 2019 and again in March 2020.

Network prior to October Summit



Network graph showing professional collaborations across summit participants. The network density is .115 and 5 cliques were identified in the network.

Current Network (March 2020)



Network graph showing professional collaborations across summit participants. The network density is .155 and 7 cliques were identified in the network. During this time period 16/38 SCORE Network participants had no change in network connections; 9 had an increase of 1 connection; 4 had an increase of 2; 3 had an increase of 3, 2 had an increase of 4, and 4 participants had an increase of 5 or more professional collaborations within the network.

The following are excerpts of participants' responses across open-ended questions.

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Respondents indicated the ideas exchanged during the summit had an impact or influence on

Thematic responses:



- “ They exposed me to more of the work being done around open-source materials and the difficulties of centralizing and maintaining such resources.
- “ I'm a librarian, the sustainability issue around OER has increased in urgency from this meeting. I understand more from the perspective of a creator/scholar.
- “ OER is sacred and obsession with inclusivity is growing.
- “ It has made me think more deeply about how I foster and promote Equity, Diversity, and Inclusion in my classroom. Conversations about the use of OER in the classroom were particularly interesting and I have continued to think more about the use of them in my classroom and how to study the effectiveness of their use.
- “ On an individual level, I now have a far deeper understanding of the OER ecosystem. On an organizational level, the SCORE summit generated ideas for possible partnerships and collaborations that could be brought back to my organization as we consider our own sustainability challenges.
- “ -I realize CourseSource is an open access journal providing OER materials. I did not talk about us in this way before
-I have met with several librarians, business people etc. that I would not have reached out to before.
- “ Since I am a PI, it has changed a lot about what direction SCORE can go. It has also given me new contacts and collaborations for QUBES and SCORE.
- “ There were several contacts that we made at the meeting that look like they may develop into mutually beneficial collaborations.
- “ Trying to find ways to collaborate to problem solve common challenges.
- “ We are having more internal discussions about inclusion and diversity.
- “ Folks at QUBES have considered how to better "institutionalize" diversity, equity, and inclusion ideas in our day to day activities.

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respondents indicated they have shared information discussed at the SCORE summit with their organization.

Responses:

“ I have reported everything back to the SCORE leadership and to QUBES. Lots of promising leads! I've also brought it back to my college and to my professional society (thinking about mission and JEDI).

“ Absolutely. I brought these connections back as resources that we could use to learn and advance our agenda.

“ I provided a summary of what we discussed and we batted around recommendations for improving our diversity and inclusivity efforts.

“ Shortly after the SCORE summit, I shared an overview with my organization's steering committee. Since then, we have continued to discuss some of the opportunities for continued engagement that have been generated in connection with SCORE.

“ At QUBES we've explored continuing partnerships with SCORE, in addition to seeking funding opportunities to expand our collaborative work.

“ We, in our project, need to keep thinking of the meaning of OER and just living our lives in respect of each other without obsession over inclusivity.

“ DBER journal club

“ I have shared information, but we are unsure the direction our organization is going at the moment.

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respondents indicated they have engaged in professional collaborations with SCORE network participants since the summit.

Thematic responses:

Contact(s), 5	Grants/Proposals, 3	Cyber-infrastructure, 2
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- “ 2 new grants, discussions about moving cyberinfrastructure, and now on a new editorial board. :)
- “ One of the SCORE network participants is on my organization's steering committee, so it is no surprise that I continue to collaborate with her. But the SCORE network has also fostered new collaborations, one that is already underway, and one that I intend to engage in the next few weeks.
- “ I also serve on the steering committee for the full SCORE grant proposal, so of course I have been collaborating with SCORE network colleagues in this capacity as well.
- “ I've worked with Michelle Smith to connect her with librarians at Cornell that could possibility provide a sustainable platform for CourseSource.
- “ So far it has been a few meetings and some planning. I am optimistic that things will move forward but even if they don't we have made a great connection with an important ally.
- “ Carrie, SERC, Kristie
- “ See previous comment - pending collaborative proposal from SCORE and QUBES.
- “ Working on a proposal.