University of Idaho



WARNER SCHOOL OF EDUCATION UNIVERSITY of ROCHESTER

Purpose

The goal of the project is to support mathematics coaches in rural contexts to improve their ability to (a) facilitate productive planning and debriefing conversations with teachers; (b) notice salient coaching practices and their impact on teachers' thinking; and (c) use evidence of teacher learning to make decisions about their own coaching practices. We implemented a three-part professional development model that included (a) an online course on content-focused coaching; (b) one-on-one video-based coaching cycles with a Mentor Coach; and (c) an online video club in which practicing coaches reflected on dilemmas of practice and the impact of coaching moves, using evidence from their own coaching.

Research Goals

We identified two primary research goals, which are to study how an online model professional development model can: 1. Support coaches to:

- a. interact productively with teachers in a content-focused coaching cycle;
- b. notice and respond to teachers' thinking; and
- c. use evidence of teacher learning to make decisions about coaching practices.
- 2. Be adapted to other contexts that may face resource, capacity, and logistical constraints.

The funding is for \$2.8 million and focuses on approximately 30 coaches in either New York or Idaho. The project is in the second year.

Select Presentations & Publications

Amador, J., Choppin, J., Callard, C., Carson, C., Kruger, J., Gillespie, R., Martin, S., Hanan, A. (2022). Coaches' noticing before, after, and during video clubs. Proceedings for the 44th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Nashville.

Amador, J., Choppin, J., Callard, C., Carson, C., & Gillespie, R. (2021). Synchronous online video-based professional development for rural mathematics coaches. Proceedings for the 43rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Philadelphia.

Contact Information & Acknowledgement

Julie Amador, University of Idaho jamador@uidaho.edu

Jeffrey Choppin, University of Rochester jchoppin@Warner.Rochester.edu

Cynthia Callard, University of Rochester ccallard@Warner.Rochester.edu

Cynthia Carson, University of Rochester ccarson@warner.Rochester.edu

Ryan Gillespie, University of Idaho rgillespie@uidaho.edu



This work was supported by the National Science Foundation (#2006353). Any opinions, findings, and recommendations expressed are those of the authors, and do not necessarily reflect the views of the National Science Foundation.

growth? time? time?

three-part model? connectivity? project?



Collaborative Research: Synchronous Online Video-Based Development for Rural Mathematics Coaches [SyncOn for Coaches]

Julie Amador, University of Idaho & Jeffrey Choppin, University of Rochester

Research Questions

Addressing Goal 1

1. How do the nature and content of coaches' contributions evolve across the multiple components of the model?

a. How do these contributions evolve over the four sessions of the online course?

b. Do the Coach Participants contribute in ways that demonstrate more substantive content and more direction related to their

c. How do the one-on-one coaching discussions evolve over time? d. How do the annotations of the coaching cycles change over

e. How do the practices in the video club meetings evolve over

How does the role of the Lead Mentor Coach evolve? 2. How are the contributions in one part of the model associated with those from other parts of the model?

a. To what extent is the vocabulary and framing from the online courses evident in participants' contributions in the online coaching and video club meetings?

b. To what extent are the coaching conversations from online coaching evident in subsequent online course sessions and video club meetings?

c. To what extent are the discussions from the video club meetings evident in the subsequent online course sessions and online coaching interactions?

Addressing Goal 2:

The following questions stipulate how we will explore our goals related to how an online video-based model can be adapted to other contexts that may face resource, capacity and logistical constraints.

What resources (e.g., time, logistics, skills) are required to enact the

What are technology constraints related to the model in terms of availability of software and hardware and internet access and

What resources and guidance are required for the sustainability of the video clubs after the participants are no longer part of the

Project Events

- 2013)
- between sessions.

- teachers
- moments



- Analysis
- Video Clips