

Understanding and Improving Learning from Online Mathematics Classroom Videos

Publications and Presentations

2016

- Bates, M. S. (2016). Does competency-based professional development have legs? *Learning on the EDge*. Retrieved from <https://kappanonline.org/does-competency-based-professional-development-have-legs/>
- Bates, M. S., Phalen, L., & Moran, C. (2016). If you build it, will they reflect? Examining teachers' use of an online video-based learning website. *Teaching and Teacher Education*, 58, 17-27. <https://doi.org/10.1016/j.tate.2016.04.004>
- Bates, M. S., Phalen, L., & Moran, C. (2016). Online professional development: A primer. *Phi Delta Kappan*, 97(5), 70-73. <https://doi.org/10.1177/0031721716629662>

2017

- Bates, M. S. (2017). Leveraging digital tools to build educative curricula for teachers: Two promising approaches. *ZDM Mathematics Education*, 49(5), 675-686. <https://link.springer.com/article/10.1007/s11858-017-0868-2>
- Bates, M. S. (2017). Watching classroom video productively. *TCM Blog*. Retrieved from <https://www.nctm.org/Publications/TCM-blog/Blog/Watching-Classroom-Video-Productively/>
- Bates, M. S. (2017). Watching classroom video productively, part 2: Focusing on student thinking in classroom video. *TCM Blog*. Retrieved from <https://www.nctm.org/Publications/TCM-blog/Blog/Watching-Classroom-Video-Productively,-Part-2/>
- Bates, M. S., Moran, C. G., & Phalen, L. (2017). Supporting excellent teaching of Common Core content and practices with video clubs. *Teaching Children Mathematics*, 23(7), 430-437. <https://www.jstor.org/stable/10.5951/teacchilmath.23.7.0430>
- Beilstein, S. O., Perry, M., & Bates, M. S. (2017). Prompting meaningful analysis from pre-service teachers using elementary mathematics video vignettes. *Teaching and Teacher Education*, 63, 285-295. <https://doi.org/10.1016/j.tate.2017.01.005>

2018

- Bates, M. S., Perry, M., Moran, C.G., Cimpian, J., et al. (2018). Exploring teacher learning from online lesson video. In *STEM for all Video Showcase: Transforming the Educational Landscape*. <https://stemforall2019.videohall.com/presentations/1605>
- Bates, M. S., Phalen, L., & Moran, C. (2018). Understanding teacher professional learning through cyber research. *Educational Technology Research & Development*, 66(2), 385-402. <https://doi.org/10.1007/s11423-017-9553-y>
- Beilstein, S. O., Henricks, G. M., Perry, M., Bates, M. S., Moran, C. G., Jay, V., Cimpian, J. R. (2018, April). Exploring teacher learning in an elementary mathematics virtual learning community: A mixed-methods approach. Presented in a structured poster symposium *Advancing Online and Blended Professional Development Through NSF's DRK-12 Program*, A. Busey (Chair) at the annual meeting of American Educational Research Association, New York, NY.
- Beilstein, S. O., Henricks, G. M., Jay, V., Perry, M., Bates, M. S., Moran, C. G., Cimpian, J. R. (2018, April). *Case studies of teacher learning in an online professional development site*. Poster presented at the annual meeting of National Council of Teachers of Mathematics Research Conference, Washington, DC.
- Perry, M., Bates, M., & Cimpian, J. (2018, June). *Understanding and improving learning from online mathematics classroom videos*. Invited digital arcade and poster presentation at the NSF's DRK-12 Principal Investigator's Meeting, Washington, DC.

2019

- Bates, M. (2019, September). *Improving teacher learning at scale: Lessons from a 10-year program of work*. Invited talk at University of Illinois at Chicago's Learning Sciences Research Institute Speaker Series.
- Bates, M., Perry, M., Cimpian, J., Moran, C., Jay, T., Beilstein, S., & Henricks, G. (2019, April). *An exploratory study of the relationship between teachers' implicit theories and reflection*. Paper presented at the annual meeting of the American Educational Research Association, Toronto.
- Bates, M. S., Perry, M., Moran, C.G., Cimpian, J., et al. (2019). Influencing online teacher reflection. In *STEM for all Video Showcase: Innovations in STEM Education*. <https://stemforall2018.videohall.com/presentations/1183>
- Henricks, G., Jay, V., Beilstein, S., Moran, C., Bates, M., & Perry, M. (2019, April). *Foundations of community in an online, asynchronous professional development website*. Poster presented at the annual meeting of the American Educational Research Association, Toronto.
- Henricks, G., Jay, V., Beilstein, S., Perry, M., Bates, M., Moran, C., & Cimpian, J. (2019). Foundations of community in an online, asynchronous professional development website. In C. Hmelo-Silver, G. Gweon, & M. Baker (Eds.). *A wide lens: Combining*

embodied, enactive, extended, and embedded learning in collaborative settings, 13th International Conference on Computer Supported Collaborative Learning (CSCL) 2019 (577-580). Lyon, France: International Society of the Learning Sciences.

<https://repository.isls.org/bitstream/1/4460/1/577-580.pdf>

2020

Bates, M., Moran, C., & Beilstein, S. O. (2020, April). *Strategies for enhancing teacher learning from lesson video*. Workshop presented at National Council of Teachers of Mathematics Annual Meeting & Exposition, Chicago, IL.

Cocatre-Zilgien, E., Bates, M., Beilstein, S. O., Cimpian, J. R., Moran, C., & Perry, M. (2020, April). Towards understanding the relations among mathematical teaching self-efficacy, goals for professional learning, and engagement in online professional development. Paper presented at the annual meeting of the American Educational Research Association, San Francisco (conference cancelled due to COVID-19).

Perry, M., Bates, M., Cimpian, J., Beilstein, S. O., Moran, C., Jay, V., Henricks, G., & Beilstein, P. (2020, April). *Impacting elementary mathematics teachers' reflection on video*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco <http://tinyurl.com/u2obmp4> (conference cancelled due to COVID-19).

2021

Bates, M. (2021, April). *Using technology to improve teacher learning at scale*. Invited talk to Georgia Institute of Technology Educational Technology course

Bates, M., Cimpian, J., Beilstein, S., Moran, C., Curry, K., Kearfott, H., Jay, V., & Perry, M. (2021, April). Measuring teacher learning outcomes in online video-based learning environments. Invited presentation in a structured poster symposium *Advancing Online and Blended Professional Development*, A. Busey (Chair) at the annual meeting of American Educational Research Association, online.

Bates, M., Perry, M., Cimpian, J. R., Beilstein, S. O., Moran, C., Curry, K., & Jay, V. (2021). Measuring teacher learning outcomes in online video-based learning environments. Paper presented in a structured poster session, "Innovations in video-intensive STEM professional development in online and blended environments," at the annual meeting of the American Educational Research Association, Orlando, FL.

Beilstein, S. O., Henricks, G. M., Jay, V., Perry, M., Bates, M. S., Moran, C. G., & Cimpian, J. R. (2021). Teacher voices from an online elementary mathematics community: Examining perceptions of professional learning. *Journal of Mathematics Teacher Education*, 24(3). 283-308. <https://doi.org/10.1007/s10857-020-09459-z>

Curry, K. S., Oca Beilstein, S., Bates, M. S., Cimpian, J. R., Moran, C. G., Kearfott, H., & Perry, M. (2021, April). *Understanding teachers who offer suggestions for improvement as part of classroom video review*. Paper presented at the annual meeting of the American Educational Research Association, online.

2022

Bates, M., Perry, M., Cimpian, J., Beilstein, S. O., Moran, C., Jay, V., & Henricks, G. (2022, under review). *An exploratory study of the relation between teachers' implicit theories and reflection*.

Curry, K. S., Oca Beilstein, S., Bates, M. S., Cimpian, J. R., Moran, C. G., Kearfott, H. & Perry, M. (2022, April 21-21). *Understanding teacher reflection to improve teacher learning online: What factors influence who offers suggestions for improvement after classroom video review?* Poster presented at the 2022 Cognitive Development Society Bi-Ennial Conference. Madison, WI.

Perry, M., Bates, M. S., Cimpian, J., Beilstein, S. O., & Moran, C. (2022). Impacting teachers' reflection on videos. *Teaching and Teacher Education: Leadership and Professional Development*. <https://doi.org/10.1016/j.tatelp.2022.100003>