1145-VD-2667   **Jason A. Hardin*** (`jhardin@worcester.edu`). *Using LaTeX to Optimize Proof Writing.*
Upon first exposure to writing formal mathematical proofs, students face the crucial component of rewriting a draft of their proof that incorporates necessary details and fills in any gaps of their original arguments. In the past, many of my introductory proof students found this process encumbersome and time consuming, and so opted not to rewrite their proofs. To mitigate this development in my most recent introductory proof course, I required students to write selected proofs in LaTeX using a template I created and shared via ShareLaTeX (now merged with Overleaf); this granted students the ability edit their proofs easily, adding details and/or taking out unnecessary statements without the task of rewriting the entire proof. In this talk, I will discuss how I incorporated LaTeX in this course, how it worked from both my and my students' perspectives, and what I will be changing in preparation to teach this course again. (Received September 25, 2018)