

1145-P5-2660 **Julia Eaton*** (jreaton@uw.edu), 1900 Commerce Street, Box 358436, Tacoma, WA 98402. *A problem of their own: using student creativity to create ownership of learning.* Preliminary report.

Course projects are built into the mathematics curriculum at the University of Washington Tacoma. These projects are intended to give students continual experience writing and presenting mathematical applications to a peer audience, as well as navigating group work. I am happy to provide students with suggested topics. Most often students select their topic from the list of suggestions list rather than generate their own. Something magical happened when a group of students invented their own problem for a multivariable calculus project. They were invested in and passionate about their project to a much higher degree than the other (already very motivated) students. The act of creating their own problem engendered an sense of ownership to their learning that I hope to replicate in more contexts. In this talk I'll share my experiences in this class, thoughts about project-based learning, and strategies for celebrating students' ideas. (Received September 25, 2018)