

1099-97-361

Theresa A. Jorgensen* (jorgensen@uta.edu). *Connecting university mathematics faculty to the K-12 classroom via research mathematics integrated in the curriculum.*

Preparing future K-12 mathematics teachers is a key component of most university mathematics departments. University-level mathematicians have expertise in teaching, learning, and researching mathematics at the post-secondary level, but few mathematicians have opportunities to connect their expertise with K-12 education. We provide a model for meaningful interaction between research mathematicians, their graduate students, and K-12 educators. This cooperation results in the creation and implementation of classroom lessons that seamlessly integrate research mathematics into local elementary, middle, and high school mathematics classrooms. This work is supported in part by the NSF GK-12 program. (Received February 11, 2014)