

1135-00-373

Laura M Smith* (lausmith@fullerton.edu), 800 N State College Blvd, Fullerton, CA 92831.

Developing Applied Mathematics Research Projects for Undergraduates. Preliminary report.

Developing an interesting and accessible research project for undergraduates can be quite challenging. We first will discuss methods of defining problems. These include investigating current events and newly available datasets or collaborating with industry and faculty in other fields on interdisciplinary work. Other possibilities involve looking into the advisor's current research projects and taking smaller pieces or applications and modifying them into a project at an appropriate level. Another approach is to allow students to search through recent papers on a topic of interest until they find one that is well-written with mathematical techniques they are able to understand. We will examine some open problems in applied mathematics that are appropriate for undergraduate students. (Received August 29, 2017)