

Abstract Submitted  
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**Implementation and testing of algorithms for data fitting** ALISON MONAHAN, LARRY ENGELHARDT, Francis Marion University — This poster will describe an undergraduate senior research project involving the creation and testing of a java class to implement the Nelder-Mead algorithm, which can be used for data fitting. The performance between the Nelder-Mead algorithm and the Levenberg-Marquardt algorithm will be compared using a variety of different data. The new class will be made available at <http://www.compadre.org/osp/items/detail.cfm?ID=11593>. At the time of the presentation, this project will be nearing completion; and I will discuss my progress, successes, and challenges.

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