

Title: "How steep is steep? Learning curves in training undergraduates to do fluid-structure interaction modeling"

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Abstract: Computational Fluid Dynamics (CFD) is often regarded as a difficult subject in its own right, let alone when attempting to get undergraduates involved in CFD-related research. However, this should not shy away neither research mentors or undergraduates from pursuing this avenue of research. We have been able to successfully work with undergraduates across a variety of majors, such as biostatistics, biology, math, and engineering, although varying degrees of time have been necessary to prepare students to get started. In this presentation, we will discuss some methods and techniques we have used for accelerating student involvement in fluid-structure interaction (FSI) research, even when the undergraduate students do not have sufficient backgrounds in computing, math modeling, or differential equations.