A Workshop On

Computational Thinking in the Engineering Curriculum

Allen Downey
Olin College

Jason K. Moore
University of California, Davis

Friday, January 5th

8 am to 12 pm

Data Science Initiative
Classroom
(360 Shields Library)

Registration (limited to 40 seats):

https://tinyurl.com/comp-think-davis

This workshop invites faculty to think about computation in the context of engineering education and to design classroom experiences that develop programming skills and apply them to engineering topics. Starting from examples in signal processing and mechanics, participants will identify topics that might benefit from a computational approach and design course materials to deploy in their classes. Although our examples come from engineering, this workshop may also be of interest to faculty in the natural and social sciences as well as mathematics.

Allen Downey is a Professor of Computer Science at Olin College. He is the author of ThinkPython, ThinkDSP, ThinkBayes, and other popular titles. Prof. Downey is an international leader in educating undergraduates through computational thinking. He is supported by Olin's Collaboratory which is "dedicated to co-designing transformational educational experiences with and for other institutions". See his website (http://www.allendowney.com) and his Wikipedia article https://en.wikipedia.org/wiki/Allen_B._Downey) for more information.

Jason K. Moore is teaching faculty in the Mechanical and Aerospace Engineering Department. He teaches dynamics and design and has recently developed an open access book "Resonance: Learning Mechanical Vibration Engineering Through Computation". More about him at http://moorepants.info.

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