

CSAAPT Spring 2023 Semi-Virtual Meeting



Chesapeake Section of the
American Association of Physics Teachers
Spring 2023 Semi-Virtual Meeting
April 1, 2023 @ **JAMES MADISON UNIVERSITY**

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Free Resources and Curricula for Teaching Scientific Computing: DSECOP, PICUP, PY4E

Saturday, April 1, 2023 1:30 PM (15 minutes)

Physics programs introduce students to scientific computing in various contexts and at various levels. In this talk, free resources and curricula are discussed for teaching computing to physics students in the following contexts: as part of a regular physics course, in a stand-alone physics course (Computational Physics), as a separate course requirement (Introductory Programming), and in special projects. The collections in PICUP and DSECOP as well as the free curriculum for python programming, PY4E, are highlighted. Comparisons of commonly-used free environments for python programming are briefly discussed.

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