**Report:** Introduction to Computational Thinking Across the Curriculum: Agent-based Modeling workshop

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**Abstract**

**An overview of the workshop contents, objectives, dates, instructor and other logistics:**
The online workshop spread over two consecutive Wednesdays, October 6 and October 13, 2021, from 1pm–4pm EDT, on Zoom. The main presenter/instructor is Dr Robert M Panoff of Shodor. This workshop is inquiry-based learning enhanced by computational thinking. During **day one**, Dr. Panoff explained the two major types of modeling, agent-based (bottom-up) and system-based (top-down) modeling giving real life examples of each. During **day two** Dr. Panoff mainly discussed about agent modeling environments and the actual building of a model via giving a real-world example of the spread of covid-19.

**Details on how the workshop information will be used in your classes:**
I will use those agent-based model into my AI class ese including how pandemic spread model will work on specific pandemic such as Zika virus or covid.

**Any contracts or opportunities that you plan to follow-up on**
Will be interested in explore more research projects related to pandemic spread model

**Status of your classroom HPC efforts**
I am integrating HPC in my AI classes via CodeOcean and Colab. I am planning to integrate more HPC into my classes