

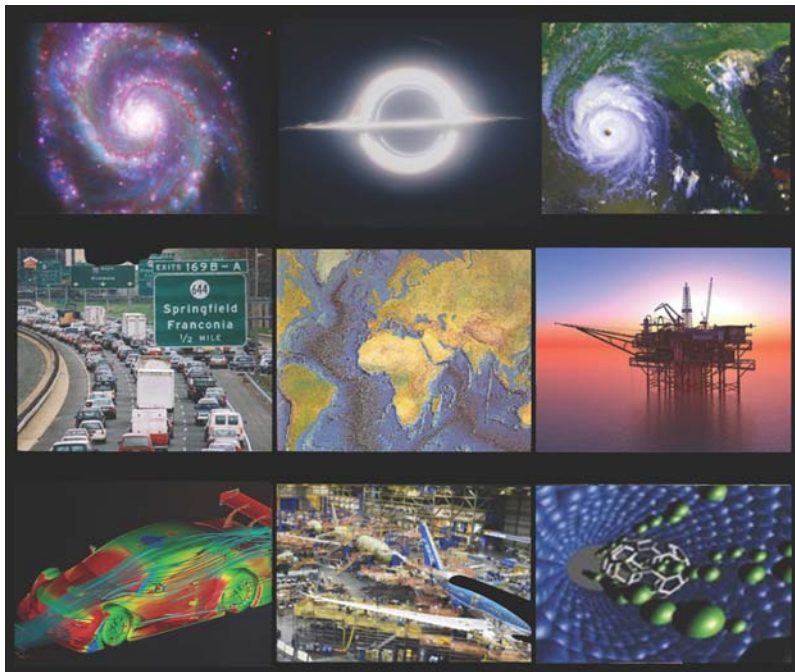
THE GEORGE WASHINGTON UNIVERSITY
Department of Physics Colloquium

Accelerating Scientific Computing with GPUs

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Universidade de São Paulo

Graphics processing units (GPUs) aren't just of interest to gamers and cryptocurrency miners. Increasingly, they're being used to turbocharge academic research, too. GPUs provide massive parallelism enabling one to perform computations on a basic computer that until very recently required a supercomputer. I will describe how GPUs can be leveraged to dramatically accelerate scientific calculations. I will also give an overview of recent applications of GPUs to astrophysical simulations, with a particular focus on radiative transfer in curved spacetimes and (magneto)hydrodynamics simulations of black hole accretion.



TIME: 4:00-5:00 pm, Thursday, September 19, 2019
(refreshments: 3:30 pm upstairs by the 4th floor pantry)

PLACE: 101 Corcoran Hall, GWU
725 21st Street, NW

METRO STATION: GWU/FOGGY BOTTOM (BLUE & ORANGE LINES)