

# Research Computing Advisory Committee

Minutes June 26, 2023 (taken by Erik Deumens)

**Present:** Nikolay Bliznyuk, Tajuana Chisholm, Gogce Crynen, Erik Deumens, Richard Hennig, Guillaume Labilloy, Rafa Munoz-Carpena, Alberto Riva, Massoud Rouhizadeh, Plato Smith, Jack Stenner, Bruce Vogel

## Updates

- **UFIT Research Computing staff changes**
  - o RC staff count is now at 25.25.
  - o Six positions for faculty support staff are posted now. They will be located across campus, close to faculty. One will be in Wertheim-UF-Scripps in Jupiter. Search has yielded three top candidates and three more of great interest. We hope to several people hire soon in these positions.
- **HiPerGator Omniverse proof-of-concept**
  - o We have obtained funding to build the hardware to support digital twin research.
  - o There are several projects at UF working with RC and NVIDIA on building digital twins.
  - o We expect the hardware to be ready in the fall of 2023.
  - o The work is already started on HiPerGator with software-only.
- **Mid-scale Research Infrastructure-2 proposal**
  - o UF submitted a pre-proposal to NSF in the \$20M to \$100M budget range for infrastructure for a national resource to do research on digital twins.
  - o The full proposal is due Dec 18, 2023. The project start is April 1, 2025.

## Discussion

- Both Dr. Munoz-Carpena and Dr. Hennig expressed interest in digital twins, one for modeling the food chain to manage wasted food, the other for managing traffic in cities. They will contact Ying Zhang and Erik Deumens to start detailed discussions.
- HiPerGator has now several PHI projects running. Dr. Rouhizadeh will contact Erik Deumens to get clarification on some steps in the process.

Next meeting will be on August 21, 2023 from 2:00 – 2:30 pm. The meeting will be Zoom only.