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## RCC eNEWSLETTER • APRIL 2025

### Twenty GPU nodes on-order

Over the coming months, we are increasing our GPU footprint on the HPC cluster by an additional twenty nodes (that's 40 GPUs). Given the increased demand for GPUs to power data science and AI research at FSU, RCC will be providing a substantial rate subsidy (details TBA) for research groups who lease these and future GPU nodes. The nodes have the following specs:

- AMD EPYC 9135 16-core, 3.65GHz CPU x1
- 288 GB RAM (18 GB per core)
- 1 TB NVME solid state storage
- NVIDIA Connect-X 6 HDR 200Gbps IB network card
- **2x NVIDIA RTX 4500 ADA GPUs w/24GB RAM ([specs](#))**

Direct inquires to [support@rcc.fsu.edu](mailto:support@rcc.fsu.edu).

[How to use GPUs on the HPC »](#)

### New and upgraded HPC software

We are happy to announce the general availability of several new and upgraded packages on the HPC:

- **[ELPA \(Linear Algebra Library\)](#)** - Upgraded from 2017.05.003 to 2021.11.001
- **[CryoSparc](#)** - Scientific platform for Cryo-electron microscopy
- **[HDF5 for GNU 13.2.0](#)** - Tools and file Structures for storing and analyzing scientific data

[See all software packages »](#)

# REDCap Lunch, Learn, and Collaborate

Join us this summer for our REDCap Lunch, Learn, and Collaborate Consortium meetings. These are free and open to everybody. The dates/topics are as follows:

- [May 28 12:30pm - FSU REDCap Self-guided training](#)
- [June 25 12:30pm - Using Mosio with REDCap](#)
- [July 30 12:30pm - Backups + Data Migration](#)

[See all REDCap events »](#)

## IDHI updates

The Interdisciplinary Data Humanities Initiative (IDHI) just completed its third academic year at our Research Computing Center! In that time, we have supported 13 projects ranging from multi-year grants to graduate dissertations. Additionally, we have offered 26 technical workshops across 11 departments ranging from Economics to Music.

If you are interested in our in-class workshops, research assistance, grant support, or available tools please reach out to [support@rcc.fsu.edu](mailto:support@rcc.fsu.edu).

[Read more about the IDHI initiative »](#)

## Research spotlight: Dr. Tom Needham

FSU Math professor Dr. Tom Needham's research is at the intersection of geometry, topology, and data science. He focuses on understanding the underlying structure of complex datasets through theoretical approaches in symplectic geometry, optimal transport, and algebraic topology.

Dr. Needham relies on the [FSU Research Computing Center's High Performance Compute cluster](#) to provide the necessary processing power for tasks like optimal transport calculations and topology techniques, enabling efficient data analysis and timely feedback crucial for his research.

[Read the spotlight »](#)



Questions?

We are here to help. Contact the ITS Service Desk at 850-644-4357 or [its.fsu.edu/help](https://its.fsu.edu/help).

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