

TEXAS ADVANCED COMPUTING CENTER (TACC) RESOURCES

10:00 am - 11:00 am | Tuesday, January 14, 2025

John Peace Library | Assembly Room | 4.04.22 (In-Person)

Join us for an overview of the Texas Advanced Computing Center (TACC) to hear about computing resources that are available for free through the UTRC (University of Texas Research Cyberinfrastructure) Initiative. During this workshop a representative from TACC will answer any questions faculty have, offer advice on accessing resources and establishing connections at TACC.

TACC resources available through UTRC include:

- High Performance Computers
- Large Data Storage
- High Bandwidth Data Access
- Extensive Software Library
- Training Support and Computational Expertise

Presented by: Joshua Urrutia, Research Software Engineer, Life Sciences Computing Team, TACC
Joshua Urrutia is a research software engineer with the Life Sciences Computing team at TACC. They work to make TACC resources available to the broader life science research community. Prior to joining TACC, Joshua worked as a research assistant in a prostate cancer lab at Oregon Health Sciences University, using a combination of wet lab and computational methods to discover and validate novel drug targets for the treatment of castration-resistant prostate cancer. At TACC, Joshua primarily works on developing automated analysis pipelines to support collaborative research projects. He created and maintained the genomics pipelines for the DARPA Synergistic Discovery and Design program (SD2). These genomics pipelines would automatically trigger when raw fastq data from either DNA or RNA sequencing experiments was uploaded to TACC. And the subsequent preprocessing, alignment, and the generation of data frames, figures, and reports would proceed without any human intervention. This same conceptual design: event-driven, modular, containerized pipelines built on TACC APIs (TAPIS), was repurposed to build an automated PHI-compliant MRI processing pipeline for the Acute to Chronic Pain Signatures (A2CPS) Program, a multi-institutional project funded by the NIH. These same methods can be applied to your research processes to improve the reproducibility and timeliness of your analysis products.



REGISTRATION IS REQUIRED:

<https://tinyurl.com/FDREGJAN14>

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