Previous Student Projects

Restructuring the Multi-Resolution Approximation for Special Data to Reduce the Memory Footprint and to Facilitate Scalability
—Vinay Ramakrishnaiah, 2016

• Partitioning into shallow trees starts at a certain resolution level
• Sub-trees (shallow trees) can be executed sequentially or in a distributed fashion
• Regions within the shallow tree resolution layers can be executed in parallel

Capstone Data Analysis Services: Microservices Early Implementation (RESTful microservices and Document Database)
—Andre Guerrero, Marjani Peterson, & Ramesh Baral, 2016

Visualization of Air Quality Data in VAPOR
—Sunni Ivey, 2014

VAPOR
• Visualization and Analysis Platform for Ocean, Atmosphere, and Solar Researchers

“I am very grateful to have participated in the SIParCS program. I consider it one of the major turning points in my life.”

Visit www2.cisl.ucar.edu/siparcs for information about available projects and annual application timelines, or to sign up for our email list.

If you need assistance using the online application system or have questions about the process please contact us at: (303) 497-1288

SIParCS Program
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“The SIParCS Program is among the most rewarding and insightful experiences of my graduate studies.”

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The goal of the SIParCS (Summer Internships in Parallel Computational Sciences) program is to make a long-term, positive impact on the quality and diversity of the people who will use and operate 21st century supercomputers.

SIParCS students serve as paid summer interns in the National Center for Atmospheric Research’s Computational and Information Systems Laboratory (CISL) that provides supercomputing and data services for scientists studying the Sun-Earth System. CISL and SIParCS interns support NCAR’s mission of scientific discovery in the atmosphere, hydrosphere, cryosphere, and biosphere, as well as in solar processes and their effects on the space surrounding the Earth.

Eligibility Requirements
Applicants must be available for the specified program dates from mid-May through early August.
Must be currently enrolled in a U.S. university as a graduate student or as an undergraduate beyond the sophomore level.
Must be authorized to work in the U.S.

Benefits
Students work 40 hours per week and receive a competitive stipend.
The program provides a furnished apartment, transportation to and from Boulder, CO, and a regional bus pass.

All applicants are considered relative to project-related factors. SIParCS and NCAR/UCAR provide equal employment opportunities without regard to race, color, religion, gender, national origin, ancestry, age, marital status, sexual orientation, domestic partner status, physical or mental disability, or veteran status.

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