

HPC Day 2026 Agenda

Friday, September 18, 2026 • Hendrix Student Center

Time	Hendrix Room 121 <i>Floor 1</i>	McKissick Theater <i>Floor 1</i>	David Peebles Room <i>Floor 2</i>	Meeting Room A <i>Floor 2</i>	Meeting Room B <i>Floor 2</i>
7:30 - 8 a.m.	Registration and coffee				
8:00 - 8:30 a.m.		Welcome Jon Calhoun <i>Associate Professor, Electrical & Computer Engineering & Chair, ReDCAT Advisory Committee</i> Jill Gemmill <i>AVP, CCIT Research Computing & Data</i> Brian Voss <i>Vice President and CIO</i>			
8:30 - 8:45 a.m.		Opening Remarks Provost Cole Smith			
8:45 - 9:15 a.m.		Keynote <i>Barr von Oehsen Director, Pittsburgh Supercomputing Center</i>			

9:15 -
10:00
a.m.

**Clemson Faculty
Lightning Talks**
Moderator: **Jon Calhoun**

Speakers:
Timo Heister
Professor, *School of
Mathematical & Statistical
Sciences*

Xinyi Li
*Associate Professor,
Mathematical & Statistical
Sciences*

Siyu Huang
*Assistant Professor,
School of Computing*

Churamani Khanal
*Associate Professor Plant
Nemotology*

Jerry A. Tessendorf
*Professor, School of
Computing*

Vivek Sharma
*Associate Dean,
Construction Science and
Management*

Emil Alexov
*Professor, Physics &
Astronomy*

Zhen Li
*Associate Professor,
SMAE Mechanical
Engineering*
“**From static biomedical
images to dynamic
analysis: Personalized**

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		hemodynamic and biological transport modeling”			
10:00 - 11:00 a.m.	Poster Session 1 and Table discussions				
11:00 a.m. - 12:00		Introduction to Clemson RCD LLM Service Doug Dawson <i>Director, Cloud & Software Services, CCIT</i> Carl Ehrett <i>Director, Applied Machine Learning, CCIT</i> This session introduces the Clemson Research Computing & Data (RCD) LLM Service, a shared platform designed to provide researchers with access to open-weight models. We'll discuss the rationale behind the service, its architecture and capabilities, model selection, and research use cases.		Where AI Meets Reality Marc R. Birtwistle <i>Professor, Chemical and Biomolecular Engineering</i> Aaron Masino <i>Associate Professor, School of Computing</i> Chris Flathmann <i>Assistant Professor, School of Computing</i>	Quantum Research at Clemson Moderator: Jason McNeil <i>Professor, Chemistry</i> Justin Talbot <i>Assistant Professor, Chemistry</i> Multiscale Materials Modeling at Palmetto Enrique Saez <i>Associate Professor, SMAE Mechanical Engineering</i> Dr. Saez will show how to use Palmetto to deploy and develop computational algorithms and tools to predict materials response. Quantum in the Service of Chemistry Jorge Barraso <i>Applied Computational Lecturer, Chemistry</i>
12:00 - 1:15 p.m.	Lunch ; Table Discussions ; Poster Session 2 (12:15 pm – 1:00 pm)				

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1:15 - 1:45 p.m.		Keynote D. Hudson Smith <i>Assistant Professor, School of Mathematical and Statistical Sciences</i>			
1:45 - 2:15 p.m.		Keynote: From Computing to Materials Olga Kuksenok <i>Professor, Materials Science and Engineering</i> <i>Dr. Kuksenok is a Professor and Associate Chair in the Department of Materials Science and Engineering at Clemson University. Her research focuses on the computational design of polymer-based materials, including responsive networks and biomimetic materials.</i>			
2:15 - 2:30 p.m.	Break				

2:30 - 3:30 p.m.		Panel: Quantum Computing - Intro & Perspectives The panel will explore how researchers can get started with quantum computing, key barriers to adoption, and its emerging applications across fields such as AI, optimization, finance, and materials science. Moderator: Zhenzhen Zhang <i>Research Computing Facilitator, CCIT</i> Panelists: Emily Tucker <i>Assistant Professor, Industrial Engineering</i> Rong Ge <i>Professor, School of Computing</i> Nathan Jones <i>Graduate Research Assistant, Computer Science</i>	Panel: HPC in Education Roundtable: Integrating HPC into Academic Teaching In this panel, Clemson faculty from diverse disciplines will discuss how they leverage Palmetto2 HPC in their classes. The discussion will identify common challenges to learning with HPC as well as the power these skills unleash in their specific disciplines. Moderator: Alex Feltus <i>Professor, Genetics and Biochemistry</i>Panelists: Jon Cameron Calhoun <i>Associate Professor, Electrical and Computer Engineering</i> F. Alex Feltus <i>Professor, Genetics and Biochemistry</i> Todd Allen Price <i>Lecturer, MBA Program</i> Justin Talbot <i>Assistant Professor, Chemistry</i> Carlos Toxtli Hernandez <i>Assistant Professor, Human Centered Computing</i> Moderator Bio: F. Alex Feltus (PhD) is Professor	From Soft Materials to Bio Systems Moderator: Kimberly L. Weirich <i>Assistant Professor, Materials Science and Engineering</i> Feng Ding <i>Professor, Physics and Astronomy</i> Multiscale Modeling of Amyloidosis: From Disease Mechanisms to Mitigation Strategies. Presenting multiscale computational approaches for uncovering the molecular mechanisms of amyloid aggregation associated with neurodegenerative diseases, including Alzheimer's disease, and how these mechanistic insights can guide the development of strategies to mitigate amyloidosis Brian Dominy <i>Associate Professor, Chemistry</i> Zhen Li <i>Associate Professor, SMAE Mechanical Engineering</i> Multiscale modeling of biological transport and blood clotting process. This talk will introduce on how computational models connect reactive transport	Talks: Industry Perspectives Moderator: Scott Groel <i>Executive Director, Research Computing and Data Infrastructure, CCIT</i> ---- 2:30 – 3:00 p.m. Cambridge Computing ---- 3:00 – 3:30 p.m. Lenovo/AMD
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			and Associate Chair of Genetics and Biochemistry at Clemson University, where he leads interdisciplinary efforts spanning genomics, systems genetics, computational biology, artificial intelligence, precision medicine, and scientific cyberinfrastructure. Over the past thirty years, his career has focused on developing computational approaches that connect biological knowledge, advanced computing, and human expertise to solve complex scientific and societal challenges.	processes across scales, reveal underlying mechanisms in biological transport and blood coagulation, and guide the development of personalized diagnostics and treatments.	
3:30 - 3:35 p.m.	Break				

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3:35 - 4:35 p.m.			Workshop: Using Generative AI in Research with HPC Moderator: Carl Ehrett <i>Director, Applied Machine Learning, CCIT</i> Panelists: F. Alex Feltus <i>Professor, Genetics and Biochemistry</i> Rong Ge <i>Professor, School of Computing</i> D. Hudson Smith <i>Assistant Professor, School of Mathematical and Statistical Sciences</i> Carlos Toxtli Hernandez <i>Assistant Professor, Human Centered Computing</i>	Panel Q&A: Careers in HPC Panelists answer questions about their career journeys Moderator: Jill Gemmill <i>AVP, CCIT Research Computing and Data</i> Panelists: To Be Announced	Talks: Data Center Metrics / Monitoring Moderator: Scott Groel <i>Executive Director, Research Computing and Data Infrastructure, CCIT</i> 3:35 – 4:05 p.m. Scott McDevitt, Vertiv ----- 4:05 – 4:35 p.m. Dell + Intel

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4:40 - 5:15 p.m.		Palmetto 2 Town Hall The User community is invited to ask questions, comment on Palmetto2 services and offer suggestions Closing Remarks and Student Poster Awards Jon Calhoun <i>Associate Professor, Electrical & Computer Engineering & Chair, ReDCAT Advisory Committee</i>			