

# Stan Ahalt

Faculty at UNC-Chapel Hill

Chapel Hill, NC, US

Director, Renaissance Computing Institute and Professor, Department of Computer Science

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## Description

Stanley C. Ahalt is director of the Renaissance Computing Institute (RENCI), professor of computer science at the University of North Carolina at Chapel Hill, the associate director of the Biomedical Informatics Service for the North Carolina Translational and Clinical Sciences Institute (NC TraCS), and the former director of the NC TraCS Biomedical Informatics Service. He is co-principal investigator for the South Big Data Regional Innovation Hub (South BD Hub), a National Science Foundation effort to build public-private partnerships that address regional big data challenges. As director of RENCI, he was instrumental in launching two major data science initiatives: The National Consortium for Data Science (NCDS), a public-private partnership to address big data challenges and opportunities in research and business; and iRODS, an effort to develop the popular integrated Rule-Oriented Data System as enterprise-quality software, complete with rigorous testing and a robust, feature-rich code base.

Dr. Ahalt serves as a member of the executive board of the iRODS Consortium, an international group focused on long-term sustainability of the iRODS data management platform. He is also a co-PI with the DataNet Federation Consortium, a National Science Foundation project to prototype an integrated platform for sharing, using and managing data across distances and scientific fields. Other leadership roles include past chair of the Coalition for Academic Scientific Computing, former co-chair of the Ohio Broadband Council, extramural member of the National Cancer Institute's Advanced Biomedical Computing Center's Oversight Committee, member of the Council on Competitiveness High Performance Computing Advisory Committee, and board member of the Clemson University Research Foundation.

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## Availability

Keynote, Moderator, Panelist, Workshop

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## Industry Expertise

Computer Software, Computer Networking, Computer Hardware

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## Topics

Data Analysis, High Performance Computing, Data Science, Public-Private Partnerships, Signal Processing, Big Data, Data Management, Data Mining, Data Streaming, Deep Learning

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## Affiliations

IEEE Computer Society, Coalition for Academic Scientific Computation (CASC), Council on Competitiveness High Performance Computing Advisory Committee, Clemson University Research Foundation

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## Past Talks

**Front Line Genomics** – “Transitional and Clinical Genomics”  
Front Line Genomics – “Transitional and Clinical Genomics Festival”

**Data and Software Citation Workshop**  
NSF Data and Software Citation Workshop

**Breaking Down Big Data**  
Carolina Honors Food for Thought Program

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## Education

**Clemson University**  
Ph.D. Electrical and Computer Engineering

**Virginia Tech**  
M.S. Electrical Engineering

**Virginia Tech**  
B.S. Electrical Engineering

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## Accomplishments

### **The National Consortium for Data Science (NCDS)**

As RENCI director, Dr. Ahalt founded the NCDS, a public-private partnership to address the challenges and opportunities related to big data. See [www.datascienceconsortium.org](http://www.datascienceconsortium.org) for more information.

### **iRODS Consortium**

As director of RENCI, Dr. Ahalt led the effort to develop the integrated Rule Oriented Data System (iRODS) as enterprise-quality data management software. He also started the iRODS Consortium, a membership-based organization that helps sustain and develop iRODS.

### **DataNet Federation Consortium**

co-PI with the DataNet Federation Consortium, a National Science Foundation project to prototype an integrated platform for sharing, using and managing data across distances and scientific fields.

### **South Big Data Regional Innovation Hub**

Named co-Principal Investigator of the National Science Foundation's South Big Data Regional Innovation Hub (with Georgia Tech). The South BD Hub is one of four regional hubs named by the NSF.

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