



News

- Prospective Students
- Contact Us
- Department Wiki
- Employment
- Giving
- New Building
- Donors
- News
- Events
- Awards
- Careers
- Internships
- Industry Partners

Video Highlights New Building and Grand Opening Ceremonies

The new Computer Science Building officially opened on April 24, 2009. Click on the link below and view a special, student-produced video highlighting the building and the grand opening festivities:

<http://www.natsci.colostate.edu/news/cs/>

Department Hosts 4th Annual CANVAS Event

The 4th Annual Computer And Network Vulnerability Assessment Simulation (CANVAS) was held Monday May 4th in the new building 3rd floor NetSec and HPC teaching labs.

In CANVAS, teams of undergraduates are asked to assess the security of a corporate network created especially for the event. The network is intended to resemble a real network that one may see in practice, but has vulnerabilities intentionally inserted. Security assessment teams are formed on the morning of the event by mixing students from different universities. The resulting team has never met prior to the event and has four hours to assess the network and write a report for the simulated organization's CEO and CTO.

The event was founded and organized by Colorado State University and the U.S. Air Force Academy. This year participating universities include Colorado College, Colorado Technical University, University of Denver, Fort Hayes State University, Metro State, and UC Colorado Springs. eSoft, a leading security company based in Broomfield, is sponsoring lunch and other companies will have representatives attend the event.

- Faculty & Staff
- CS Directory
- CS Userlist
- Alumni
- Degrees
- Courses
- Schedules
- ... *more choices*
- Groups & Projects
- Publications
- Graduate Students

Dr. Adele Howe wins CNS Teaching Award



Congratulations to **Dr. Adele Howe** who is the recipient of a 2008 College of Natural Sciences Excellence in Undergraduate Teaching award. The outstanding teaching awards were established in 1995 to recognize efforts to help students realize their full learning potential; to encourage students to set high standards for scholarship, integrity, and independence; and to be receptive to students' concerns.

- BMAC Seminar
- ACM
- Upsilon Pi Epsilon
- ... *more choices*
- Labs
- Systems
- Using your PC

Upsilon Pi Epsilon Inducts New Members

Congratulations to the 2009 inductees of the Upsilon Pi Epsilon International Honor Society for the Computing Sciences:

- Dalal Alrummy*
- Aritra Bandyopadhyay*
- Brandon M. Daniel*
- Clemente I. Izurieta*
- Kyle Kelley*
- James Krumm*
- Christopher M. Mullins*
- Scott Ryder*
- Christopher Wilcox*
- Xing Xie*
- Craig Ziesman*

2008-2009 Anita Read Graduate Award

Congratulations to **Aritra Bandyopadhyay** who has been awarded the 2008-2009 Anita Read Graduate Award for excellence in teaching. He has also been nominated for the College of Natural Sciences Graduate Student Teaching Award.

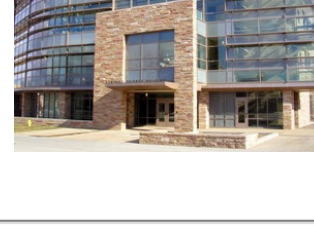


Computer Science Building Grand Opening Ceremony on April 24, 2009

The Grand Opening Ceremony for the new Computer Science Building will be held on April 24, 2009 from 4:00PM to 5:30PM. The entire CSU community will be invited, including faculty, staff, students, and the Board of Governors. This celebration is also meant to thank the CSU students, who so generously funded this building with their 12.9M donation through student service fees, as well as all of our private donors.

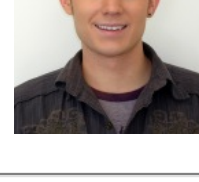
Spring Classes and Labs Held in the New CS Building

Spring classes, labs, recitations, and meetings are being held in the new Computer Science Building. For room reservations, please contact Sharon Van Gorder at 491-5862 or vangord@cs.colostate.edu.



Department Welcomes New Staff Members

The department is pleased to welcome Taj Schakel as our new Student Staff Assistant. Taj is a sophomore Political Science major.



Awards and Recognitions

Authors: Andy Evans, Robert B. France, Kevin Lano, Bernhard Rumpe
Paper Title: "The UML as a Formal Modeling Notation"
Award: Ten Year Most Influential Paper Award
Conference: MODELS 2008
Award Description: This paper from UML 1998 was judged to have had the greatest impact among all the papers published that year.

Authors: J. Ross Beveridge, Geof H. Givens, P. Jonathon Phillips, Bruce A. Draper, and Yui Man Lui.
Paper Title: "Focus on Quality, Predicting FRVT 2006 Performance"
Award: Best Paper Award
Conference: 2008 8th IEEE International Conference on Automatic Face and Gesture Recognition.

Authors: Monte Lunacek, Darrell Whitley, Andrew Sutton
Paper Title: "The Impact of Global Structure on Search"
Award: Best Student Paper Award
Conference: PPSN 2008
Award Description: Awarded for work on multifunneled optimization problems.

New Research Awards

Dr. Dan Massey, WIT: A Watchdog System for Internet Routing. Department of Homeland Security. Project Lead: CSU; Subcontractors: UCLA, University of Arizona, University of Oregon.

Dr. Dan Massey, Secure Interzone Key Management for Large Scale DNSSEC Deployments. Department of Homeland Security. Project Lead: Secure64; Subcontractor: CSU.

Fall 2008 Graduate Degrees Awarded

The Computer Science Department congratulates the following students on the completion of their graduate degrees in fall 2008:

Master of Science

Jason S. Aronoff, Nathan D. Burnett

Master of Computer Science

Amal Abdulrahman AlAwdah, Fatmah Yousef Assiri, Jose Castillo, John W. Graham, Ryan A. Hughes, Ju Jiang, Jeffery G. Massey, Niranjana Kumar Vengavasi Viswanath

Dr. Bruce Draper Elected Faculty Member of MCIN

Congratulations to Dr. Bruce Draper who has been elected as a regular faculty member of CSU's Molecular, Cellular and Integrative Neuroscience (MCIN) Program. MCIN is an interdisciplinary graduate research and education program with 29 faculty participants. The program is one of Colorado State University's Centers of Research and Scholarly Excellence. Dr. Chuck Anderson and Dr. Asa Ben Hur, both from the Computer Science Department, are also faculty of MCIN. For more information on this program, please follow the link below.

Molecular, Cellular and Integrative Neuroscience (MCIN) Program

Dr. Michelle Strout Awarded NSF CAREER Grant

Dr. Michelle Strout, Assistant Professor in the Computer Science Department, has been awarded an NSF CAREER grant for the project "Parallelization using Inspector/Executor Strategies (PIES)."



Project Description:

This research involves developing a tool suite called PIES (Parallelization using Inspector/Executor Strategies) for the automatic incorporation of inspector/executor strategies into irregular applications. Inspector/executor strategies have been developed to parallelize irregular computations such as solving partial differential equations over irregular grids, molecular dynamics simulations, and computations over sparse matrices. Although inspector/executor strategies have been incorporated into many applications and libraries, these strategies are still hindered by the lack of a general framework for automating the process of incorporating inspector/executor strategies into programs. Use of the PIES tool suite will reduce software development time by automating the incorporation of inspector/executor strategies into existing code and enables the development of new inspector/executor strategies.

This project also includes an outreach program for local high school students based on applying the PIES tool suite to the molecular dynamics simulations that are part of the Molecular Workbench. The Molecular Workbench enables educators to easily develop educational modules to demonstrate physical concepts visually for students, but it is currently limited to simulating 1000 particles or less. As part of the PIES project, we will (1) apply the PIES tool to the Molecular Workbench simulation engine to enable larger simulations on multi-core processors, which are becoming standard on many desktops and laptops, and (2) develop an educational module with the Molecular Workbench software that interactively introduces students to parallelization concepts within the context of a multi-core parallelization of a molecular dynamics model relevant to their current chemistry curriculum. By presenting an opportunity to do computer science experiments in the context of parallelizing computational models, the students will be exposed to some of the exciting ways computer science is applicable to the natural sciences in general.

Dr. Dan Massey Awarded NSF Grant

Dr. Dan Massey, Assistant Professor in the Computer Science Department, has been awarded an NSF grant for the project "NeTS-ISG Collaborative Research: Enabling Future Internet Innovations through Transit Wire (eFIT)"



Project Description:

We are developing a new Internet architecture design, eFIT, to achieve the objective of enabling future innovations by ensuring strong universal connectivity at the architectural level. eFIT places user networks and provider networks in different address spaces and routing spaces, removing the inter-dependency between the two worlds. With eFIT, users can treat the transit core of the Internet as simply a transit wire with strong universal connectivity, and providers are insulated from the various problems caused by explosive growth in user networks. Therefore both users and providers will be able to innovate freely on their own without any architectural constraints.

RamBytes Newsletter Archives

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|---------------------------------------|------------------------------|
| RamBytes 5.2 Spring-Summer 2007 | RamBytes 5.1 Fall 2006 |
| RamBytes 4.2 Spring-Summer 2006 | RamBytes 4.1 Fall 2005 |
| RamBytes 3.2 Spring-Summer 2005 | RamBytes 3.1 Fall 2004 (PDF) |
| RamBytes 2.2 Spring-Summer 2004 (PDF) | RamBytes 2.1 Fall 2003 (PDF) |