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News

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Colloquium

News Spring/Summer 2015

Researchers Awarded \$2.1M DARPA Grant to Create New Paradigm for Human-Computer Communication

Dr. Bruce Draper, Dr. Jaime Ruiz, Dr. Ross Beveridge, Dr. Chris Peterson (Mathematics), and Dr. Michael Kirby (Mathematics) have been awarded a \$2.1M grant from DARPA for their project, Communication through Gestures,



Expression, and Shared Perception. The interdisciplinary research team will develop a system that allows people to communicate with computers through gestures and facial expressions. When humans communicate with each other, they use more than language; gestures and expressions are an important part of the information that passes between them. As computers become our partners in performing cooperative tasks, we will communicate with them using non-verbal cues. Human-computer, nonverbal communication is beneficial in cases

Employment

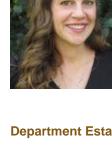
Internal

where language use is difficult: noisy environments (e.g., factories), where there is a language barrier, or when someone is hearing impaired. The goal of this work is to create Elementary Composable Ideas (ECIs) based on gestures and expressions, so that the new paradigm encompasses all forms of communication, bringing communication between people and computers up to the level of communication among people.

Read the CSU SOURCE article here

Professor Daniel Lokshtanov, University of Bergen, and Christine Lo, a recent Ph.D. graduate at UCSD. This work will be presented at the ESA conference in Patras, Greece, September 14-16.

Dr. Christina Boucher Wins Best Paper Award at the European Symposium on Algorithms



Department Establishes Colorado Computer Science Educators Conference (CoICSE) This May the department established and held the inaugural Colorado Computer Science Educators Conference (ColCSE) designed to facilitate a longneeded collaboration between CS educators. The purpose of ColCSE is to discuss educational techniques and issues related to undergraduate and high

Congratulations to Christina Boucher and colleagues for winning a Best Paper Award at the 23rd European Symposium on Algorithms (ESA). The paper is titled, Consensus Patterns (Probably) Has no EPTAS. The paper co-authors are Assistant

discussed major topics including: minority and female participation, how to teach introductory CS, program copying and academic integrity, and collaboration between high school and undergraduate faculty.

CoICSE is part of a larger effort to establish CSU Computer Science in the area of CS education through the conference, attending and publishing at the ACM Special Interest Group on Computer Science Education (SIGCSE), and outreach to high schools. For more information about the ColCSE conference and our efforts in computer science education please visit: http://www.cs.colostate.edu/cse/

Dr. Chuck Anderson's latest brain-computer interface research work is highlighted in an article titled, "Unlocked" in the Spring 2015 edition of CSU Magazine. Dr. Anderson is collaborating with Patricia Davies (Occupational Therapy) and William Gavin

(Human Development and Family Studies) on their NSF-funded project Removing Barriers to the Practical Use of Non-Invasive Brain-Computer Interfaces. Their goal is to help those with locked-in syndrome or other limitations communicate with the outside



Awad Younis Receives 2014-2015 Anita Read Graduate Award

Congratulations to Awad Younis, who has received the 2014-2015 Anita Read Graduate Award. This award is given each year to a graduate student in Computer Science with demonstrated dedication to education and excellence in teaching. The recipient is selected by the department faculty. To view a list of past recipients, please visit our webpage on Scholarships and Awards.

CSU Magazine is published 4 times annually. Its mission is to reflect the university's teaching, research, and outreach goals and

Dr. Chuck Anderson's Work Highlighted in CSU Magazine

Read the full CSU Magazine article here.

to create goodwill with CSU alumni and friends.

world.



Patricia R. Mohilner Memorial Scholarship: David Schud James Sites and Elaine Regelson Undergraduate Research Scholarship: Chancey Dunn

To read about our scholarships and view the list of past recipients, please visit our Scholarships and Awards page.

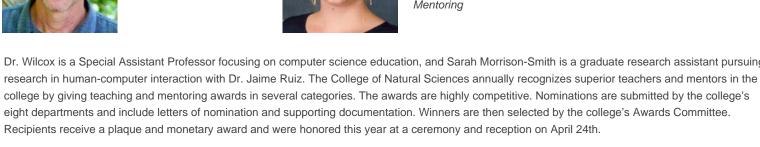
Chris Wilcox

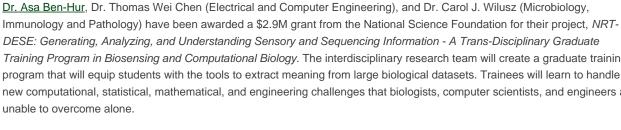
Internet architectures for the future. Their work is highlighted in a recent Coloradoan article titled, "Building a New Internet for the New Millennium." Visit Dr. Papadopoulos's webpage to learn more about his work in networks and

Dr. Chris Wilcox and Sarah Morrison-Smith Win College of Natural Sciences Teaching and Mentoring Awards



A team led by Christos Papadopoulos has been funded by the National Science Foundation to explore new





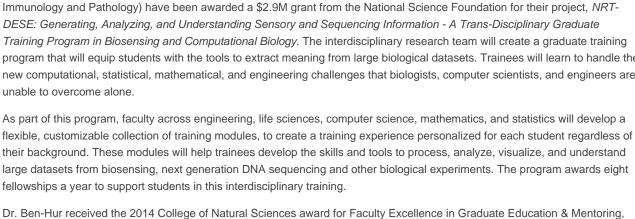
Researchers Awarded \$2.9M NSF Grant to Help Transform STEM Graduate Education

Read the CSU SOURCE article about this project here.

Elliott Forney Receives Graduate School Excellence Award at Graduate Student Showcase

Learn more about the Graduate Student Showcase and see all the winners.

Donations may be made to the Robert France Fellowship at:



and is a winner (with <u>Dr. Christina Boucher</u>) of the 2012-2013 CSU Provost Course Development Competition.

In Memory: Professor Robert B. France (1960-2015)

https://advancing.colostate.edu/ROBERTFRANCEFELLOWSHIP Dr. Sangmi Pallickara and Interdisciplinary Research Team Awarded Catalyst for Innovative Partnerships Grant Dr. Sangmi Pallickara is part of an interdisciplinary team of researchers that has been awarded a grant from the new Catalyst for

of Life will be held Friday, March 27 from 6-8 p.m. in the University Club/Cherokee Park Room.

Read the full article on CSU SOURCE

Department Launches ACM-W Student Chapter

View SOURCE Article

student enrollment in CSU computer science. The chapter hosts a variety of activities: industry events and networking, technical sessions, hackathons, social gatherings, and outreach activities targeting high school and middle school students. Membership is open to all ACM members and nonmembers who wish to uphold the mission statement, regardless of race, creed, color, age, or gender. Please visit the ACM-W website for information about membership, meetings, events, and more.

required essays, recommendation letters, transcripts, and/or resumes by the March 1 deadline.

If you are interested in any CSU scholarships, the application deadline is March 1. To be eligible, please complete the online application and submit any

Doctor of Philosophy

Master of Science Navini V. Dantanarayana, Pradyumna Narayana Rao Gari, Pingamage W. Ranasinghe, Ryan A. Stern.

Master of Computer Science

Bachelor of Science

school computer science education. This year, 34 educators from 14 institutions (universities, colleges, community colleges, and high schools) across

Colorado and Wyoming participated in the one-day conference. Each institution shared its challenges, demographics, and best practices. They then

The Steven Boyd, Jr. Scholarship: Barajdi Boralo and Timothy Chesson The Frances E. Allen Scholarship in Computer Science: Lauren Bay

Read the full Coloradoan article here.

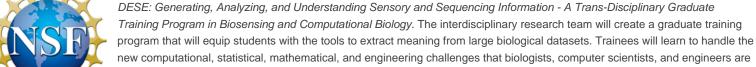
Dr. Christos Papadopoulos's Work Highlighted in the Coloradoan

The Evolutionary Computation and Artificial Intelligence Graduate Fellowship: Elliott Forney

Read the full article on CSU SOURCE here.

Congratulations to Dr. Chris Wilcox and Sarah Morrison-Smith on winning 2015 College of Natural Sciences teaching and mentoring awards!

Undergraduate Research Undergraduate Teaching Mentoring Dr. Wilcox is a Special Assistant Professor focusing on computer science education, and Sarah Morrison-Smith is a graduate research assistant pursuing



Upsilon Pi Epsilon Inducts New Members for 2015 The department is pleased to announce the new members of Upsilon Pi Epsilon who were inducted at a ceremony on April 22. UPE is the international honor society for the computing sciences. It was founded in 1967 to recognize scholarship and professionalism and is the only international honor society for this discipline. It is officially recognized by ACM and the IEEE Computer Society. To view a list of past inductees, please visit the UPE website at: http://www.cs.colostate.edu/upe/. Congratulations to our new members:

> Congratulations to computer science Ph.D. student Elliott Forney on his Graduate School Excellence Award at the CSU spring 2015 Graduate Student Showcase. Of 300 showcase presenters, 15 were recognized for their excellence in research, scholarship and entrepreneurship. Elliott's poster was titled: A Modular Platform for EEG Analysis and Real-Time Brain-Computer Interfaces. Elliott is a research assistant at the CSU Brain-Computer Interfaces Laboratory working to develop assistive technologies for people with severe motor impairments. His research interests are in machine learning, pattern analysis and data science with a focus on neural networks, time-series analysis, signal processing and the application of these technologies to problems in neuroscience, biomedical engineering and brain-computer interfaces (BCI). Read the recent Collegian cover story about the Brain Computer-Interfaces (BCI) Laboratory.

Professor Robert B. France passed away on February 15 after a battle with (nonsmoker) lung cancer. Prof. France was a worldrenowned researcher who co-founded the Software and Systems Modeling Journal, was named an international chair of INRIA, and was honored with the prestigious Excellence in Science and Technology Award for 2014 by the Institute of Caribbean Studies. The Robert B. France Computer Science Fellowship has been established in his name, and an on-campus Celebration

Innovative Partnerships (CIP) program launched by the CSU Office of the Vice President for Research. The 2015 CIP recipients comprise seven teams from across CSU that will pursue innovative ways to solve complicated, global problems. Dr. Pallickara's team, the Coalition for Development and Implementation of Sensor Systems, will focus on developing integrated chemical and biological sensors and sensor networks, which are critical in prevention, monitoring, and treatment applications including

The department is pleased to announce the formation of the Colorado State University ACM-W Student

celebrate, and advocate internationally for the full engagement of women in the computing field. The CSU chapter seeks to provide a support network for current female students in computing and to increase female

Chapter (CSU ACM-W). The group's faculty advisor is Dr. Indrakshi Ray. The mission of ACM-W is to support,

Hessah Alsaaran, Lauren Bay, Pritish Chamania, Gareth Halladay, Joshua Larison, Mark Millard, Sarah Morrison-Smith, Subhojeet Mukherjee, Elmahdi Omar, Rudra Sharma

infectious diseases, cancer, water, food safety and energy. The project PI is David Dandy (Chemical and Biological Engineering), and the other team members are: Ken Reardon (Chemical and Biological Engineering); Chuck Henry and Melissa Reynolds (Chemistry); Anura Jayasumana and Tom Chen (Electrical and Computer Engineering); Rick Lyons (Infectious Disease Research Center); Jennifer Mueller (Mathematics); Lori Peek (Sociology); and John Volckens (Mechanical Engineering).

CSU Scholarship Application Deadline is March 1

(laaS) Clouds.

acm's women in

computing

Congratulations Fall 2014 Graduates The Computer Science Department congratulates the following students on the completion of their degrees in Fall 2014: Kathleen Ericson, Robust Health Stream Processing.

Click here for more information and application links.

Wesley J. Lloyd, Autonomous Management of Cost, Performance, and Resource Uncertainty for Migration of Applications to Infrastructure-as-a-Service Zhiquan Sui, Distributed Algorithms for the Orchestration of Stochastic Discrete Event Simulations.

> Abdullah M. Algarni, Prakruthi Devaragudi, Patrick T. Flynn, Kyle B. Frampton, Scott J. Goodwyn, Pratik Guharay, Kumar, Nikhil Naole, Harish Narra, Aby Paul, Kalyan Pesala, Sridhar Reddy Shyamala, Evan R. Steinberger, Andrew J. Walters, Jeffrey T. Wangler, Russle B. Wilcox, Zhu Yang.

Duaa S. Alhashem, Bikramjeet S. Bajwa, Andrew E. Benavides, Samuel L. Bruns, Christopher R. Cirulli, Matthew N. Clang, lan S. Cohee, Daniel P. Elliott, Alexander G. Fathman, Matthew B. Frahry, Colton J. Frazier, Nathaniel L. Gillard, Nicholas R. Heim, Zaccary O. Helfer, Eric S. Helms, Michael J. Hoppal, Adriane J. Huber, Sean P. Maher, Tanner R. Moore, Bryce O. Myers, Yoshiya D. Okayasu, Anne S. Ross, Zachary D. Schrag, Nathan W. Sharp, James M. Thornton, Jonathon L. Todd, Stephen A. Zapp.