

Thoughts from the Head



Dr. Brian M. Slator,
Department Head

Please donate to our scholarship funds.

If you only read two sentences of this essay, that is the message I want to convey.

Scholarships are good.

They allow top students to concentrate on their studies more, and worry less about paying for school.

Scholarships allow us to attract more top students.

Parents like scholarships, they reduce stress.

Students like scholarships, they reduce debt.

Employers like scholarships, it helps them identify top talent.

We are very grateful to the National Science Foundation. They provided scholarship money through a federal grant that lasted 5 years. But that money is gone now. We are very grateful to Microsoft Great Plains. They have provided us with five \$1,000 scholarships for the last several years. So, with those programs operating, the department has been hoarding scholarship donations into an interest bearing account. But it is time to open those up again.

After all, with recent enrollment growth we now have nearly 300 undergraduate majors and only those five scholarships to offer. Please donate to our scholarship funds.

It is our loss



Senior Lecturer, Richard Dale Rummelt passed away suddenly on August 10, 2012. Richard was born on September 30, 1956 in Greenville, Michigan to Herman and Judith Rummelt. He leaves behind his wife, Li; son, Long; his mother, Judy and brother Herman.

Richard coached Digi-Key Collegiate Computing Competition and the International Collegiate Programming Contest, 2010-11. A popular teacher, he will be remembered by his contagious smile, friendly nature, and the Hawaiian shirts and crocs he wore to class. His students often times placed bets on which shirt he would be wearing.

At the time of his death, he was completing his Ph.D. at NDSU. He was looking forward to teaching his classes this fall. Richard will be greatly missed by his students and the Computer Science department.

Assistant professor receives prestigious NSF award



Hyunsook Do, assistant professor of computer science, received a Faculty Early Career Development award from the National Science Foundation. Do will receive a five-year, \$500,000 award from the foundation to conduct research outlined in her proposal, titled "Context-aware Regression Testing Techniques and Empirical Evaluations of Their Economic Impact." She is the first member of the Computer Science department at NDSU to receive a CAREER award.

This is a major grant that will be used to help develop more effective methods to test software, enhance computer science curriculum and provide opportunities for student researchers.

Kendall Nygard receives Tapestry Award



Congratulations, Kendall Nygard, professor of computer science, for making a difference in the lives of the students. Nygard is one of the latest recipients of the campus recognition for the NDSU Tapestry of Diverse Talents. The Tapestry of Diverse Talents is a pictorial mosaic that recognizes students, faculty, staff and alumni for the

diversity and contributions they bring to North Dakota State University. Each semester individuals are inducted into the Tapestry. Inductees reflect the ages, classes, abilities, ethnicities, genders, races, regional differences, sexual orientations, beliefs and values of the University community. The Tapestry program kindles the spirit to diversify diversity.

Computer Science Department selected as a STARS Alliance Member

The department was awarded membership of the STARS (Students & Technology in Academia, Research & Service) Alliance for the 2012-2013 academic year. The mission of the STARS Alliance is to increase the participation of women, under-represented minorities, and persons with disabilities in computing disciplines through multi-faceted interventions. Dr. Simone Ludwig, Associate Professor, and Joan Krush, Advisor/Lecturer, serve as academic liaisons for the STARS Alliance.

Kong receives NSF grant



The National Science Foundation has presented a \$300,000 grant to NDSU to develop new interfaces for interactive devices such as smart phones and tablets and start building a media effects lab to benefit social scientific work at the university. Jun Kong, assistant professor is the principal investigator.

"The primary objective of this proposal is to develop a cross-platform infrastructure that supports the research of natural interaction," said Kong. "This infrastructure, when applying to different computing and communication devices, will provide a new way of human-computer interaction by automatically choosing the optimal modalities under various interaction scenarios. It provides the necessary instruments for developing novel interfaces, especially on newly released mobile devices."

Computer Science capstone course goes international

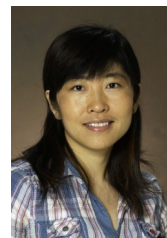


Student teams in the NDSU Computer Science Capstone Projects course have developed more than 100 real-world industry sponsored projects for regional companies since 2004, covering everything from Web apps to cell phone apps to cloud computing to robotics to prototyping new development systems for sponsors.

Since international development projects are becoming common in industries, it is deemed to be beneficial for students to gain this experience. This year, the Capstone Projects course started including international capstone projects where students work from NDSU, but their sponsoring companies are international.

Establishing these international connections has taken a few years to develop. The capstone instructor, Dean Knudson, met a German professor from Fachhochschule Hannover and a Swedish professor from Linkoping University at different conferences in recent years. In discussing what each was doing for their capstone projects, the concept of an exchange of student projects was developed. The idea was that a team from NDSU would do a project for a company in Germany while a team of German students would do a project for a company in the United States. Two of the current 13 NDSU capstone teams, were involved during Spring 2012.

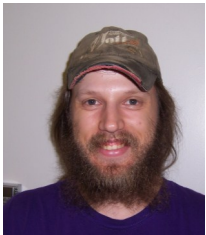
Researchers develop disaster management system



Juan Li, assistant professor of Computer Science, and Samee U. Khan, assistant professor of electrical and computer engineering, have developed an elaborate cloud computing based disaster management system.

The system core is a web-based social network that provides a platform to enable users (workers, first-responders, local disaster related non-profit organizations, volunteers and local residents) to access information, communicate and collaborate, in real-time from all types of computing devices, including mobile handheld devices, such as smart phones, PDAs and iPads.

Foertsch new Systems Administrator



Robert Foertsch (rhymes with birch or church) is the Computer Science Department System Administrator. He replaces Adam Helsene.

Foertsch has been working for Dr. Slator on his research team, so he is very familiar with the department and it's workings. Robert hails from Wyndmere, ND and has a BS in Computer Science with a minor in Economics. The department is excited to have Robert join the department.

Do you have news to share? We want to hear from you so we can put it in our newsletter. Send your story to NDSU.Computer.Science@ndsu.edu or send us your news online

<http://cs.ndsu.nodak.edu/alumniform.htm>

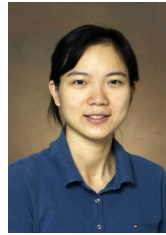
CS alumni & student news

The Department of Computer Science wants to know how you're doing, and you want to keep up with your old friends. Use the online form to send us your stories, your accomplishments, your newsy bits and we will print them here. This is a short list of employment and accomplishments of our students:

- ◆ Adam Helsene (BS '08), the ex-Computer Science Systems Administrator has accepted a position at the Microsoft Fargo campus along with Chris Beseman (BS '03), Austen Dicken (BS '12), Nathan Ehresmann (BS '11) and Aaron Marback.
- ◆ Abram Jackson (BS '11) and Ryan McCulloch work for Microsoft at their Redmond campus.
- ◆ Dietmar Dorr (Ph.D. '08) is at Google.
- ◆ Selvedin Alic (BS CS & Math '07) is at Thomsom Teurters as a Senior Software Engineer. He says, "I'm really thankful for the education I received at NDSU and know that I wouldn't be successful without it."
- ◆ Matt Odden (BS CS & Math, Minor in Statistics '12) accepted a position at IBM in Rochester, MN .
- ◆ Junior Zech Andersen received the Goldwater Scholarship award. Established by Congress in 1986, the Barry M. Goldwater Scholarship and Excellence in Education Program was created to encourage outstanding students to pursue careers in mathematics, the natural sciences or engineering to foster excellence in those fields.
- ◆ Saumya Singh collaborated on an interactive mobile application which has a variety of tools from an interactive campus map that gives directions to specific offices, to parking lots or bus shelters.
- ◆ The NDSU student chapter of the Association for Computing Machinery (NDSU ACM) took second place in a national programming competition. The group participated in "MechMania" at the annual "Reflections Projections" ACM conference held at the University of Illinois at Urbana-Champaign on Oct. 7-9. Team members received an Amazon Kindle along with 100GB of space from Dropbox for life as prizes for placing second.

Check the Computer Science website for more news: <http://cs.ndsu.edu/news.htm>

Rui Dai joins Computer Science



Rui 'April' Dai, originally from Wuhan, China, received her PhD from Georgia Institute of Technology in 2011 in Electrical and Computer Engineering. An Assistant Professor, she is teaching CSCI 477 "Object-Oriented Systems" for this semester.

Her research is in wireless sensor networks and multimedia.

Thanks to all who have donated funds to the CS department this past year. It is because of you we are growing and succeeding.

*denotes multiple donations

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Many corporations match employee donations as their commitment to the community and employees. For example, Microsoft will match donations up to \$12,000 per year per employee. Contact your company to see if they match donations. Your generosity has helped build this department and contributed to the student successes.

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<http://cs.ndsu.edu/news.htm>

Computer Science Newsletter

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Or, you can donate directly online at <http://www.ndsufoundation.com>. Click on **Give Now**, choose **College of Science and Math** in the drop down and designate the **Computer Science Department** in the **Additional Information Comments**.

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