

Faculty Scholars

Would you be interested in working on a project that creates access technology for use by deaf, hard-of-hearing, and other students?



Dr. Michael Stinson

"The students really enjoy our projects because they have the opportunity to be creative and to contribute to a product that improves access for deaf and hard-of-hearing students."

C-Print research and development projects hire software engineering and computer science students to work on the development of access technologies. Michael Stinson has worked at RIT for over 30 years and is still energized to come to work each day because of the opportunity to work with students on research that interfaces psychology and technology. Read more at www.ntid.rit.edu/research/faculty.php?id=msserd.

RIT freshmen work on interesting and fun team projects such as a print-on-demand t-shirt business and mobile phone apps.



Prof. Xanthe Matychak

"Teaching design-thinking to students in business and technology is my meta research. I was an invited participant to an NSF workshop at Stanford on design pedagogy and the experience was completely inspiring."

Xanthe Matychak teaches in the E. Philip Saunders College of Business, but her keen interest in IT projects has led to work partnering business students with students from art/design, anthropology, and computing on fun ideas like mobile phone apps for dorm room design. She has consulted with more than 25 teams of Saunders freshmen on projects, and serves as the faculty adviser at RIT's Center for Student Innovation. Read more at saunders.rit.edu/directory/facstaff/430 and <http://www.rit.edu/academicaffairs/centerforstudentinnovation/>.

Look at the earth in a new way.



Dr. John Schott

"The research is always new and the students are fresh and excited about the science and the opportunity to contribute to it."

The first Landsat satellite was launched in 1972. Today, RIT undergraduates help develop a baseline split window calibration algorithm for the next Landsat satellite for NASA and the U.S. Geological Survey. It's John Schott's favorite research project because it ranges from field measurements on the Great Lakes (boats and kayaks) through theory to measurements from the satellite images. Read more at www.cis.rit.edu/user/48; www.rit.edu/news/?v=45530 and www.rit.edu/news/index.php?p=experts&action=viewexpert&id=89.

Jon Schull works with students on a number of bicycle and alternative energy initiatives.



Dr. Jon Schull

"[I] envision turning Greater Rochester into a world-class bicycling region—a move that could create new industries, products, and services while transforming the area."

Interested in pedal power? Work with Jon Schull to create a tunnel or perhaps a heated pathway. This collaborative effort teams up RIT students and faculty with community enthusiasts to increase year-round bike commuting and turn Rochester into a world center of bicycling and sustainable transportation. Read more at www.rit.edu/news/?v=47084.

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RIT At A Glance

FOUNDED IN 1829, Rochester Institute of Technology is a privately endowed, coeducational university with eight colleges emphasizing career education and experiential learning.

THE CAMPUS occupies 1,300 acres in suburban Rochester, the third-largest city in New York state. RIT also has international campuses in Croatia, Dubai, and Kosovo.

THE RIT STUDENT BODY consists of approximately 12,130 full-time and 1,720 part-time undergraduate students, and 2,630 graduate students. Enrolled students represent all 50 states and over 100 foreign countries.

RIT is an internationally recognized leader in preparing deaf and hard-of-hearing students for successful careers in professional and technical fields. The university provides unparalleled access and support services for the more than 1,300 deaf and hard-of-hearing students who live, study, and work with hearing students on the RIT campus.



COOPERATIVE EDUCATION provides paid career-related work experience in many degree programs. RIT has the fourth-oldest and one of the largest cooperative education programs in the world, annually placing more than 3,600 students in more than 5,400 co-op assignments with nearly 2,000 employers across the United States and overseas.

RIT will admit and hire men and women, veterans, people with disabilities and individuals of any race, creed, religion, color, national or ethnic origin, sexual orientation, age, or marital status in compliance with all appropriate legislation.

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R·I·T

Undergraduate Research Opportunities



WORLD CHANGERS

You belong here.
see why >>

What does Student Research look like at RIT?

When inspiration and opportunity converge, the results can be magical.

RIT students experience a campus that is a nexus of creativity, innovation, and technology. Our faculty is fully engaged in the discovery of new knowledge and, as a result, students from all different disciplines can join teams that work on innovative initiatives—green technology, medical sciences, new products and services, creative arts and crafts, or groundbreaking fundamental research. Read more about undergraduate research opportunities at www.rit.edu/cos/undergraduateresearchsymposium.

RIT's eight colleges offer over 90 bachelor's degree programs in art and design, business, engineering, science, photography, sustainability, hospitality and service management, information technology, bioinformatics, and many other areas. As a major technological university, we offer academic opportunities that extend far beyond

science and technology, including more liberal arts courses and faculty than are found at most liberal arts colleges. Explore more at www.rit.edu/colleges.html.

The Center for Student Innovation, open 24/7 physically and virtually, was created to be a hub for inventive thinkers to share their ideas and work together on new projects. This exciting facility sponsors workshops, seminars, innovation courses, competitions, pilot projects, and any activity that inspires creative thinking. www.rit.edu/academicaffairs/centerforstudentinnovation.

RIT President William Destler has remarked, "The desire to be different is an innate American characteristic that is exhibited by our students each and every day." This is the place for you to be unique, inventive, and creative. **YOU BELONG HERE!**



imagine doing this!

Flying at Zero-G on the Vomit Comet!

A team of four Imaging and Photography students from RIT conducted an inkjet-related experiment flying at Zero-G on the infamous Vomit Comet at NASA's Johnson Space Center in Houston, Texas.

Find out more at www.rit.edu/cias/photo/2009-nasa-vomit-comet.html.

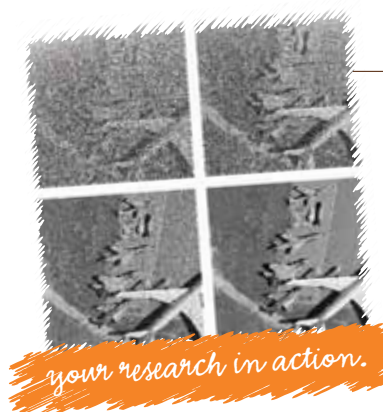


picture yourself here.

X-ray Crystallography. WHAT?

Only a second-year student, Sebastian Ramirez is already off and running with his research. Working in the biochemistry lab with his faculty mentor, Dr. Suzanne O'Handley, Sebastian has had the opportunity to research the structural characterization of enzymes using X-ray crystallography and UV/Vis spectroscopy. He plans to attend graduate school and gain a Ph.D. in the field of structural biochemistry—in particular, using X-ray crystallography and NMR techniques.

Hear Sebastian talk about his undergraduate research at www.youtube.com/watch?v=GmxW4NSNz1A.



your research in action.

Turn Down the NOISE!



Importance of Read Noise: The photographs on the left simulate varying levels of read noise in an image of airplanes at Robins Air Force Base. The bottom right image has zero read noise and the other images have read noise comparable to that found in common usage on space-based imaging platforms today. These images demonstrate the superior performance of a zero read noise detector. RIT student Brian Glod has been working on the ultra-low-noise imaging detector for a NASA planetary missions project at the Rochester Imaging Detector Laboratory (RIDL) at the Chester F. Carlson Center for Imaging Science at RIT.

Explore space and other frontiers at the RIDL website: ridl.cis.rit.edu.

Milestones...

"Who is the person inside of you trying to get out?"

Michael Conti, an RIT photojournalism student, enrolled himself in the inner city program **Milestones** to document the lives of Rochester youth trying to quit gangs and the street life. These young men and women come from different places but are united by a common interest in improving their lives.

Each new friend received a disposable camera. With Michael's encouragement, their pictures evolved into a powerful photographic documentary.

See more of Michael's photos and stories at mxc9126.cias.rit.edu.



Photo by Michael Conti

united to improve.

Instant News: The Open Publishing Lab

Armed with full backpacks, RIT student journalists covered the six-hour Imagine RIT Festival. Stories and photos were submitted via wireless laptops and smartphones. By the end of the day, faculty and students in the Open Publishing Lab had printed four editions and thousands of copies of the newspaper **Innovation News**.

Discover more about RIT and the Open Publishing Lab, Innovation News, and other student projects at opl.rit.edu/projects.



see yourself in print!

Farming Innovations

Students from different disciplines and colleges around campus worked in teams to develop technology never before used at RIT, specifically in hydroponics. The most important project was the design and construction of vertical growing apparatus. Their projects continue and new developments include other types of vertical growing stations and hydroponic systems along with growing plants for applications other than food, such as manufacturing.

Do you have an interest in issues of health and quality of life in urban areas as well as the course of the future of sustainable human living?

Find out what is happening at RIT at the Center for Student Innovation: www.rit.edu/academicaffairs/centerforstudentinnovation.



are you interested in an activity that has important social impact?