



UNIVERSITY of
ROCHESTER



RESEARCH

Research in the Arts, Humanities, and Social Sciences

www.rochester.edu/research/social.html

The Humanities Project fosters interdisciplinary research in ethics and aesthetics. Recent projects include the founding of Open Letter (a publishing house specializing in literary translation), the acquisition of a major outdoor work of art, and studies of everything from pipe organs to religious cultures, from the 2008 presidential election to identity.

www.rochester.edu/college/humanities

The Eastman Computer Music Center provides computer and digital audio facilities for research and creative projects. The Center also fosters artistic collaborations between musicians and filmmakers, choreographers and dancers, literary and theatrical artists, and professionals and students in a variety of fields.

www.ecmc.rochester.edu/ecmc/home.html

The Mt. Hope Family Center examines diverse psychological, social, and biological influences on adaptation, resilience, maladjustment, and psychopathology. The Center also investigates intervention and prevention program efficacy.

www.psych.rochester.edu/research/mhfc

The Skalny Center for Polish and Central European Studies focuses on the development of Central Europe, including language, literature, culture, history, economy, and politics.

www.rochester.edu/college/psc/CPCES

The Koller-Collins Center for English Studies contains approximately ten thousand primary texts in all areas of British and American literature, with special holdings in the works of the Elizabethan dramatists, and a wide range of reference materials for literary studies.

www.lib.rochester.edu/index.cfm?PAGE=233

The Center for the Study of African-American Politics provides an intellectual environment for rigorous research on the political life of African Americans and a space for local and national scholars to exchange and nurture their ideas through workshops, conferences, and fellowships.

www.rochester.edu/college/PSC/CSAAP

Student Profile: Kazuki Sakamoto, '09

Biology (pre-dental) / Anthropology / Music

“Being able to work in a lab over at the Medical Center has been a great learning experience. Not only does it look good for my future, but I also get to take part in exciting research. I was able to find a research assistant position easily, even though I had little experience.”



Research in the Biomedical Sciences

www.rochester.edu/research/biomedical.html

The **University of Rochester Medical Center**, located right next to the River Campus, is a world-class research facility offering countless opportunities for undergraduates. The Center includes the School of Medicine and Dentistry, the School of Nursing, Strong Memorial Hospital, Highland Hospital, Golisano Children's Hospital, James P. Wilmot Cancer Center, Eastman Dental Center, and more than 100 clinical, educational, and research departments.

www.urmc.rochester.edu

The **Center for Visual Science** consists of more than 25 laboratories representing a wide range of vision studies, from the development of the visual system to the interaction between visual perception and memory.

www.cvs.rochester.edu

The **Center for the Study and Prevention of Suicide** is dedicated to reducing suicides and injuries from attempted suicides. Laboratories specialize in suicide studies, personality and development, intimate partner victimization and violence, and depression.

www.rochesterpreventsuicide.org

The **Rochester Center for Brain Imaging** explores the workings of the human brain through state-of-the-art resources, such as a 3T magnet used for magnetic resonance imaging (MRI), a rare opportunity for undergraduates. Other opportunities include assistantships and courses on analyzing MRI data.

www.rcbi.rochester.edu



Research in the Natural Sciences and Engineering

www.rochester.edu/research/sciences.html

The Paleomagnetic Research Group provides a truly hands-on education, sponsoring expeditions in the Arctic, the Sahara, New Zealand, and South Africa. Undergraduates learn mapping techniques, collect vertebrate fossils, and begin to discover themselves as scholars and scientists. Students have called these trips “one of the most innovative and unique experiences available at the University.”

www.earth.rochester.edu/pmag

The Laboratory for Laser Energetics (LLE) is a unique national resource for research and education in science and technology. Research at LLE is focused on the interaction of intense radiation with matter. The lab houses two of the world’s most powerful lasers. Since its formation in 1970, more than 800 University students have received training at LLE.

www.lle.rochester.edu/index.php

The Resource for the Study of Neural Models of Behavior, supported by a grant from the National Institutes of Health, is made up of three cutting-edge laboratories: Spatial Orientation and Sensorimotor Integration, Virtual Reality, and Anthropomorphic Simulation.

www.cs.rochester.edu/research/brain/nih.html

The Wireless Communication and Networking Group develops communication and networking solutions, for both sensor networks and mobile ad-hoc networks, through the design of advanced protocols and architectures that provide reliability for diverse applications. The Group is sponsored by Eastman Kodak, Xerox, Harris Corporation, and others.

www.ece.rochester.edu/research/wcng

Student Profile: Stephanie Yurchyk, '07

Geological Sciences / Russian Studies / Political Science

“There are a lot of opportunities for undergraduate research here. For my second study abroad experience, I went to Melbourne, Australia, where I not only took geology courses but also conducted independent research.”



Only at Rochester

www.enrollment.rochester.edu/admissions/learning/programs.shtm

Student Profile: Jake Grantier, '07

Microbiology / Psychology / Music

"After getting involved in HIV vaccine research on campus, I traveled to Africa on an exchange program through the University and a non-profit organization."



For students who have their minds set on a particular career – and the educational path it entails – Rochester offers several highly selective programs that ensure a smooth transition from college to grad school to the professional world.

REMS (Rochester Early Medical Scholars): A highly selective eight-year B.A./B.S. - M.D. program, REMS guarantees admission to the University's School of Medicine and Dentistry upon successful completion of the undergraduate program.

REBS (Rochester Early Business Scholars): REBS students complete both their bachelor's degree and M.B.A. in a six-year program that offers invaluable preparation for the business world. Undergraduates accepted into the program are also assured admission to the William E. Simon Graduate School of Business Administration, located right on the River Campus.

GRADE (Guaranteed Rochester Accelerated Degree in Education): This five-year B.A./B.S. - M.S. program guarantees successful undergrads admission to the Margaret Warner Graduate School of Education and Human Development, part of the River Campus. GRADE students also receive a quarter-tuition scholarship all five years.

GEAR (Graduate Engineering At Rochester): In this accelerated program, students complete their bachelor's degree in three years and their master's in two. During their fifth year, GEAR students serve as teaching assistants and receive a half-tuition scholarship.

Portable Research Grants

www.enrollment.rochester.edu/admissions/portablegrants

To support undergraduates in their research endeavors, the Office of Admissions offers portable research grants of up to \$3,000 for students working with faculty sponsors. The grants can be used for a variety of research-related expenses, such as the purchase of equipment, travel to conferences, summer study abroad programs, unpaid internships, and service learning opportunities.

Fellowships, Summer Programs, and Other Research Opportunities

The **de Kiewiet Summer Research Fellowship** is a 10-week program that gives biology undergraduates an opportunity to perform substantial research in faculty labs.
www.rochester.edu/College/BIO/UPBM/upbmdekiewiet.htm

The **National Science Foundation Research Experience for Undergraduates** in the Department of Chemistry is a summer program of full-time scientific research that includes discussion groups, research meetings, and social activities.
www.chem.rochester.edu/chemsummer/REU.html

The **HOUR** (History Opportunities for Undergraduate Research) Program gives students the chance to perform research alongside renowned history professors. Recent topics ranged from social ideals in post-conquest England to the uses of poetry in America.
www.rochester.edu/College/HIS/undergrad.hourprog.php

Barth-Crapsey Undergraduate Research Awards encourage high-quality independent research in the humanities and social sciences, especially in the fields of government, politics, political history, and literature, and on topics relating to the historical and cultural heritage of the Rochester/Monroe County area.
www.rochester.edu/College/ugresearch/barth_crapsey/index.html

The **Camelot Project** is dedicated to the development of an online database of Arthurian texts, images, bibliographies, and basic information. Undergraduates may intern in the program for credit, conducting research, writing papers, and developing their own websites as a culmination of their work.
www.lib.rochester.edu/camelot

The **Department of Physics and Astronomy's Research Experience for Undergraduates (REU) Program**, funded by the National Science Foundation, is a 10-week summer program during which students undertake supervised research projects, attend seminars, and present their work at a symposium.
www.pas.rochester.edu/urpas/page/specialreu

The annual **Susan B. Anthony Institute Award for Independent Research in Gender and Women's Studies** is presented to the student who has completed the best undergraduate research project in gender and women's studies during the academic year. The Institute also offers research grants to undergraduates.
www.rochester.edu/College/WST/undergrad/ugrants.htm

The **Center for Visual Science Summer Research Fellowship Program** provides undergraduates interested in neuroscience, cognitive science, artificial intelligence, and biomedical science with invaluable laboratory training.
www.cvs.rochester.edu/ug_fellowship.html

Highlights in Faculty Research 2007

www.rochester.edu/research/highlights_2007.html

- John Treanor, professor of medicine and of microbiology and immunology, led research for the first bird-flu vaccine to be approved by the FDA. The vaccine was named one of the “Top 10 Medical Developments of 2007” by *Time* magazine.
- A Medical Center team determined that a compound derived from daisies has the potential to attack the roots of leukemia.
- Alice C. Quillen, associate professor of astronomy, led a study concluding the possible presence of a new, Neptune-sized planet.
- Brain and Cognitive Sciences researchers concluded that playing video games sharpened subjects’ visual accuracy by 20 percent.
- Researchers at the Medical Center designed a synthetic RNA-based molecule that restored normal muscle function in mice with myotonic dystrophy, the most common form of muscular dystrophy in human adults.
- Psychology researchers discovered that if test takers see the color red before taking the test, their performance decreases significantly.
- Scientists in the Department of Biology discovered a copy of a bacterial parasite’s genome residing inside the genome of its host species.

2008 Fulbright Scholars from the University of Rochester

Sarah Burnham, ‘08

Studying Chinese, international relations, and history at Tsinghua University

Christine Kenison, ‘08

Studying Polish literature of the 1950’s at Jagiellonian University

Emily Lyman, ‘08

Conducting research on early intervention for autism

Rebekah Porter, ‘08

Serving as an English Teaching Assistant while pursuing fluency in Chinese

Benjamin Schmitt, ‘08

Conducting physics research at the Max Planck Institute for Nuclear Physics in Heidelberg

Brett D. Stark, ‘07

Serving as an English Teaching Assistant while studying Mandarin Chinese and the formation of Taiwanese national identity

Ashley Van Vechten, ‘08

Studying German language and history while serving as an English Teaching Assistant



Want to learn more?

Visit: www.enrollment.rochester.edu/admissions

For additional information about the University of Rochester, please contact:

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