

Faculty

Carnegie Mellon has approximately 1,048 full-time and 206 part-time teaching and research faculty members with a student-faculty ratio of 10:1. Approximately 96 percent of faculty members have a Ph.D. or equivalent degree in their field. These professors, instructors and lecturers are in the classroom, lab, studio or work-place creating new knowledge on a daily basis with their students. Ninety-nine percent of all undergraduate classes are taught by faculty; more often than not, they teach both undergraduate and graduate courses. Undergrads have the opportunity to work on groundbreaking research projects with these award-winning faculty members, who frequently include Nobel Laureates as well as top U.S. government advisors.

The faculty at Carnegie Mellon includes some of the nation's most accomplished scientists, scholars and artists. Here are just a few of the world-changing pioneers who work and teach on campus:

Iliah Nourbakhsh and **Randy Sargent**, in collaboration with scientists at NASA's Ames Research Center, have built a low-cost robotic device that enables any digital camera to produce breathtaking gigapixel panoramas, called GigaPans. **Sheldon Cohen** is one of the world's most cited authors in the areas of psychology/psychiatry and social sciences. His work focuses on the roles of stress and social support systems in health and well-being.



Kiron Skinner holds a number of key positions in Washington, D.C. She was a member of former-Defense Secretary Donald Rumsfeld's Defense Policy Board and was its representative on Sec. Rumsfeld's Defense Practice Implementation Board.

George Loewenstein is among the founding fathers of decision science, a field that was pioneered at Carnegie Mellon by the late Herbert A. Simon. Loewenstein's groundbreaking research examines the influence that emotions and other psychological factors have on economic decision-making.



Barbara MacKenzie-Wood traveled to South Africa for three weeks to create and lead one of the first theater programs for World Camps, an international organization that assists African children affected by AIDS.

Tiziana Di Matteo's research interests focus on studying black holes. Her research encompasses a wide range of topics, including theoretical studies of the interplay between black hole growth and galaxy formation. **David Yaron**



developed the Chemistry Collective, a project in the NSF's National Science Digital Library and the Pittsburgh Science of Learning Center, that supports a community of innovative instructors interested in improving chemistry education through interactive and engaging online activities.

Bahar Biller, focuses on the development of new simulation methodology of global supply chains, operational risk modeling and queuing theory. **Linda Babcock** provides expertise in negotiation and conflict resolution to numerous public sector, not-for-profit organizations and private sector organizations. Her work on women and negotiations, studying the workplace intersections of economics and psychology, has been discussed in hundreds of newspapers, magazines and television shows in the United States and abroad.

Carnegie Mellon Office of Government Relations

Pittsburgh office: 412.268.7778
Washington, D.C. office: 202.547.8515
email: governmentrelations@cmu.edu
Web: www.cmu.edu/govrel



PROFESSOR SARA KIESLER HONORED WITH LIFETIME ACHIEVEMENT AWARD

Sara Kiesler, Carnegie Mellon University's Hillman Professor of Computer Science and Human-Computer Interaction, is this year's recipient of the Association for Computing Machinery Special Interest Group in Computer-Human Interaction's most prestigious honor, the Lifetime Achievement Award. Members of the SIGCHI honorary group have made extensive contributions to the study of human-computer interaction (HCI) and have led in shaping its direction. Kiesler is a well-known social psychologist who has studied group dynamics, decision-making and communication.



PROFESSOR OF VIOLIN CYRUS FOROUGH HONORED BY WORLD ACADEMY OF ARTS, LITERATURE AND MEDIA

The World Academy of Arts, Literature and Media recently honored Cyrus, professor of violin in Carnegie Mellon University's School of Music, with a 2008 Persian Golden Lioness Award. The awards are given to a few elite individuals each year who are nominated, studied and selected by an international panel representing the arts, literature and media. The Persian Golden Lioness awards are the most prestigious international Persian cultural awards. Noted for his "fiery intensity" and "poetic vision," Forough is a laureate of the Tchaikovsky International Competition and a first-prize winner of the Milwaukee Symphony Violin Competition.



GRANGER MORGAN ADVISES OBAMA TO CREATE CO2 MANAGEMENT TEAM

Carnegie Mellon's M. Granger Morgan, head of the department of engineering and public policy, has unveiled a two-stage approach for developing new energy technologies that can help the U.S., the world's leading greenhouse gas producer, reduce its emissions. With the help of a team of researchers from Carnegie Mellon, the University of Minnesota, the Vermont Law School, and Washington, D.C.-based energy law firm Van Ness Feldman, Morgan discussed the creation of a new regulatory structure to capture, transport, and sequester carbon dioxide in the United States. Morgan's recommendations include the creation of an independent Federal Carbon Sequestration Commission as well as a report that outlines the formation of a widespread commercial-scale carbon sequestration operation in the United States.



LUIS VON AHN NAMED ONE OF WORLD'S TOP YOUNG INNOVATORS

Luis von Ahn, assistant professor of computer science at Carnegie Mellon University, was named one of this year's top 35 innovators under the age of 35 by Technology Review magazine in the field of human computation. His latest project, called reCAPTCHA, is a new version of the "distorted letter" tests, called CAPTCHAs, that ensure that users of a Web site are human and not rogue computer programs. Instead of using artificially distorted letters or numbers, the reCAPTCHA tests use words from printed texts that are in the process of being digitized but cannot be deciphered with existing optical character-recognition programs. By solving the reCAPTCHA puzzle, a human user not only gains access to a Web site, but also helps make more books available online. Last year von Ahn was named a winner of a John D. and Catherine T. MacArthur Foundation "genius grant."



PSYCHOLOGIST DAVID KLAHR NAMED TO NATIONAL ACADEMY OF EDUCATION

Psychology Professor David Klahr has been elected to the National Academy of Education. Klahr is the first Carnegie Mellon faculty member to be elected to the NAEd, an elite group of researchers who promote quality education research and policy. Klahr is a cognitive psychologist whose research has centered on effective techniques for teaching science and on children's ability to reason scientifically. He is the training director of Carnegie Mellon's Program in Interdisciplinary Education Research, which trains doctoral students from several disciplines — including psychology, statistics and robotics — to conduct applied educational research. The students earn a Ph.D. in their chosen field while performing research aimed at improving instruction in schools.