

UNIVERSITY OF PITTSBURGH

A word cloud of terms related to information science, including 'research', 'artifacts', 'digital', 'security', 'resources', 'archives', 'data', 'networking', 'access', 'literacy', 'technology', 'users', 'telecommunications', and 'networking'. The words are in various sizes and orientations, set against a blue background with binary code and a glowing blue wave.

Information Sciences

www.ischool.pitt.edu

University of Pittsburgh

School of Information Sciences

The field of information sciences encompasses many disciplines and areas of expertise that address the types and management of available information, the needs of people to find and use this information, and the technology to meet those needs. Think of it as an umbrella of professions and academic areas that explore the possibilities and challenges surrounding a key resource: information. Each day, information is created, sought, and used by individuals, corporations, governments, and societies. The world needs experts to help find, organize, store, validate, and systematize forms of information that range from books and pictures to Web sites and databases. Now, perhaps more than ever, trained and creative professionals are needed to understand users and uses of information in order to design and build real-world and virtual systems and services that will foster the potential of the volume of data being produced every day.

The School of Information Sciences, or the *iSchool*, at the University of Pittsburgh has a long and distinguished tradition of producing leaders in the information sciences and associated professions. For more than a century, the school has offered degree programs addressing information in its many forms, the management and organization of information, the systems to control and secure it, and the needs of the people and organizations that depend upon that information.

Our alumni represent the breadth of opportunities in the information sciences. They have challenging careers in universities and research laboratories, libraries and archives, companies and manufacturing industries, and governments and nonprofits. They may work with books, artifacts, digital documents, routers, networks, or databases. They solve problems in the board room, the operating room, and the classroom. They have a set of skills and the theoretical knowledge to harness the power of the influential resource: **INFORMATION**.

Mission

The mission of the School of Information Sciences is to support and advance the broader education, research, and service missions of the University by educating students, furthering knowledge, and contributing expertise to advance humankind's progress through information.

We do so by:

- providing a high-quality undergraduate program in information science;
- offering superior graduate programs in library and information science, information science, and telecommunications;
- engaging in research and scholarly activities that advance learning through the extension of the frontiers of knowledge and creative endeavor;
- cooperating with industry and government to transfer knowledge; and
- extending our expertise to local communities and public agencies to contribute to social, intellectual, and economic development in Pennsylvania, the nation, and the world.



Academics at the *i*School

Since its founding, the *i*School has offered rigorous academic programs that have shaped the information professions, the disciplines within the information sciences, and the world. Just as society's needs have changed, so have our academic offerings, which have grown to represent the full spectrum of information—from creator to user to storage and transmission. Students studying at the *i*School enjoy several key advantages:

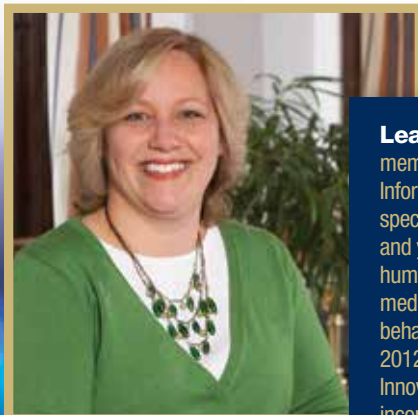
- Classes taught by faculty and real-world information professionals
- Opportunities to choose from a vast array of courses in all three fields
- A flexible curriculum that allows students to design meaningful courses of study to meet their career goals
- Faculty members who are truly multidisciplinary, coming from diverse disciplines such as computer science, library science, law, engineering, history, mathematical psychology, artificial intelligence, education, intelligent systems, physics, Earth science, and computer networking
- Opportunities to get practical experience through internships and field experiences
- Ability to participate in federally funded research
- Support services and amenities provided by a world-class university in a thriving metropolitan area

One of the most significant features of our programs is the emphasis placed on looking at information holistically. This outlook permeates the curriculum and prepares graduates for a world of opportunities in almost any field, in any corporation or organization, in any country or geographic region. It's impossible to imagine a type of organization or business that doesn't rely upon information to be successful. Therefore, *i*School alumni can create fulfilling careers in any economic or governmental sector.



Prashant Krishnamurthy

is a prolific researcher in wireless data networks, network security, wireless network virtualization and resiliency, and location-based social networks. He has published extensively on securing wireless ad hoc networks, energy efficiency in networks, and securing transmissions in sensor networks. His research has been funded by the National Science Foundation, U.S. Department of Defense, and National Security Agency.



Leanne Bowler is the lead faculty member for the Master of Library and Information Science (MLIS) academic specialization in services for children and youth. Her research focuses on human-information interaction, new media literacies, and mindful online behavior. She was honored with the 2012 ALISE Pratt-Severn Faculty Innovation Award for her efforts to incorporate evolving technologies into her curriculum.



The University of Pittsburgh School of Information Sciences is a member of the *i*Schools organization, an international consortium of institutions of higher education that offer degrees in the information sciences and are interested in the relationship among information, technology, and people.

Visit www.ischools.org for more information.

Research at the *i*School

The University of Pittsburgh is a top public research university. As part of our mission, the *i*School engages in research and scholarly activities that advance learning by extending the frontiers of knowledge and creative endeavor. One of the benefits of studying at the *i*School is that we encourage both students and faculty to participate in leading-edge research projects. The *i*School receives more than \$2 million in research funding each year from prestigious organizations such as the National Science Foundation (NSF), the Institute of Museum and Library Services, the U.S. Department of Defense, the National Institutes of Health, the Office of Naval Research, the Bill & Melinda Gates Foundation, and Google.

The faculty have created research collaborations that explore the breadth of the information sciences, including the following areas:

- computer and network security
- advanced database management
- geoinformatics
- human-centered computing
- adaptive Web systems
- decision support systems
- cognitive systems
- large-scale and distributed systems
- cyberinfrastructure
- information behavior and literacy in children and young adults
- data archives
- cyberscholarship
- science and technology studies
- medical informatics
- multilingual information search and retrieval
- social informatics
- open-source computing
- information and network security
- wireless network systems and their survivability
- policy implications of new technologies

The Environment at the *i*School

Our faculty, staff, and administration are dedicated to promoting the responsible use and management of information, fostering the academic and professional success of our students, and contributing to the associated information professions. Faculty and students join or enroll in the *i*School thanks to its multidisciplinary approach to information and the rigor of its academic and research programs. They enjoy the environment at the school, which is marked by a significant international population that represents the global nature of the field; the collaboration in the classroom and in the research lab, which mirrors the team approach to problem solving in the professions and academia; and the services and support students need to successfully navigate their programs of study. At the *i*School, students have the opportunity to work on projects with faculty from across the programs; to participate in lectures and colloquia that look at the forefront of the field; and to socialize with faculty, staff, and their peers on a regular basis.



Peter Brusilovsky is renowned for his work on adaptive Web-based systems, personalized e-learning, and intelligent tutoring systems. He has been honored with the degree of Doctor Honoris Causa by the Slovak University of Technology in Bratislava, an NSF Faculty Early Career Development (CAREER) Award, and an E.T.S. Walton Visitor Award by the Science Foundation Ireland.



iSchool Highlights

- The iSchool hosts the iSchool Inclusion Institute (i3) to increase the diversity of faculty and students in the field of information sciences.
- The iSchool won a U.S. Agency for International Development grant to develop a telecommunications graduate program in Pristina, Kosovo.
- Thanks to the support of the Andrew W. Mellon Foundation, the iSchool has developed a research program in cyberscholarship, one of the first of its kind.
- Four iSchool faculty members have won a prestigious NSF CAREER Award.
- The iSchool created the first online graduate degree program at Pitt, allowing more than 400 students to earn an MLIS degree without having to leave their homes or their jobs.
- iSchool faculty members have been recognized for their excellence in teaching by the University of Pittsburgh, the Web-based Information Science Education consortium, and the Pennsylvania School Librarians Association.
- The iSchool is home to the Sara Fine Institute, which explores how technology impacts personal and professional lives.
- The MLIS degree program is accredited by the American Library Association and ranked among the top programs nationally by *U.S. News & World Report*.
- The iSchool is designated a Center of Academic Excellence in Information Assurance Education and Research by the National Security Agency and U.S. Department of Homeland Security.



Olivia Green graduated from the iSchool's Bachelor of Science in Information Science program in 2013. She was a member of the inaugural cohort of scholars in the iSchool Inclusion Institute (i3), which is a nationwide effort to increase diversity in the information sciences field. Funded by the Andrew W. Mellon Foundation, i3 hosts a two-year program to introduce undergraduates from underrepresented groups to graduate study and careers in the information sciences.



James Joshi has led the creation of the information assurance academic and research programs, including securing the funds for a Scholarship for Service program in cybersecurity. This NSF CAREER Award winner explores security and privacy in distributed systems, trust management, and network survivability.

The University of Pittsburgh: A Major Research Institution

The University of Pittsburgh, founded in 1787, is one of the oldest institutions of higher education in the United States. Pitt is a top-tier research institution with more than 200 graduate degree programs and is a member institution of the by-invitation-only Association of American Universities. Pitt is home to quality faculty members who have been honored with membership in the National Academy of Sciences, American Academy of Arts and Sciences, American Association for the Advancement of Science, and American Educational Research Association.

The *i*School and New Directions

As technology becomes even more advanced, it is estimated that the amount of information available for human use will double every three years. As society enjoys an escalating amount of available information, corporations will need highly trained professionals to manage information and access. Governments will depend upon *i*School graduates to design secure systems and to protect the privacy of individuals and organizations. And, perhaps most importantly, people will require systems and experts to help them harness the power of information. The *i*School will be at the forefront of designing systems, creating tools, and exploring the boundaries of information search and retrieval—all to realize the potential of people, information, and technology.



University of Pittsburgh

*School of Information Sciences
Information Sciences Building
Fifth Floor
135 North Bellefield Avenue
Pittsburgh, PA 15260*

Phone: 1-800-672-9435

www.ischool.pitt.edu