School of Computer Science

Martial Hebert, Dean

Thomas Cortina, Associate Dean for Undergraduate Programs

Veronica Peet, Assistant Dean for Undergraduate Experience

Location: GHC 4115
www.cs.cmu.edu/undergraduate-programs (http://www.cs.cmu.edu/undergraduate-programs/)

Carnegie Mellon founded one of the first Computer Science departments in the world in 1965. As research and teaching in computing grew at a tremendous pace at Carnegie Mellon, the university formed the School of Computer Science (SCS) at the end of 1988. Carnegie Mellon was one of the first universities to elevate Computer Science into its own academic college at the same level as the Mellon College of Science and the College of Engineering. Today, SCS consists of seven departments and institutes, including the Computer Science Department that started it all, along with the Computational Biology Department, the Human-Computer Interaction Institute, the Language Technologies Institute, the Machine Learning Department, the Robotics Institute and the Software and Societal Systems Department (formerly the Institute for Software Research). Together, these units make SCS a world leader in research and education. Over the last six years, SCS has launched four new primary undergraduate majors in Computational Biology, Artificial Intelligence (the first of its kind in the United States), Human-Computer Interaction, and Robotics. This year, we will launch a new primary major in Robotics. These new majors, along with the highly-ranked Computer Science major, give students in SCS distinct paths in the field of computing with ample opportunities in industry and advanced research.

The School of Computer Science offers the following majors and minors:

- B.S. in Artificial Intelligence
- B.S. in Computational Biology
- B.S. in Computer Science
- B.S. in Human-Computer Interaction
- B.S. in Robotics
- Bachelor's in Computer Science and Art (joint with the College of Fine Arts)
- Additional major in Artificial Intelligence
- Additional major in Computational Biology
- Additional major in Computer Science
- Additional major in Human-Computer Interaction (Interdisciplinary)
- Additional major in Robotics
- Minor in Artificial Intelligence
- Minor in Computational Biology
- Minor in Computer Science
- Minor in Human-Computer Interaction
- Minor in Information Security, Privacy and Policy
- Minor in Language Technologies
- Minor in Machine Learning
- Minor in Neural Computation
- Minor in Robotics
- Minor in Software Engineering

Information for these majors and minors can be found through the navigation menu or through the links below:

- Artificial Intelligence (http://coursecatalog.web.cmu.edu/schools-colleges/schoolofcomputerscience/artificialintelligence/) (B.S. degree, additional major, minor)
- Computational Biology (http://coursecatalog.web.cmu.edu/schools-colleges/schoolofcomputerscience/undergraduatecomputatonalbiology/) (B.S. degree, additional major, minor)
- Computer Science (http://coursecatalog.web.cmu.edu/schools-colleges/schoolofcomputerscience/undergraduatecomputerscience/) (B.S. degree, additional major, minor)
- Human-Computer Interaction (http://coursecatalog.web.cmu.edu/schools-colleges/schoolofcomputerscience/humancomputerinteractionprogram/) (B.S. degree, additional interdisciplinary major, minor)
- Robotics (http://coursecatalog.web.cmu.edu/schools-colleges/schoolofcomputerscience/robotics/) (B.S. degree, additional major, minor)
- SCS additional majors and minors (http://coursecatalog.web.cmu.edu/schools-colleges/schoolofcomputerscience/addlmajorsminors/)

Students who apply to, and are directly admitted into, the School of Computer Science can choose between five primary majors: Artificial Intelligence, Computational Biology, Computer Science, Human-Computer Interaction and Roboitics. Students with artistic and computing interests may be given the option to pursue a major in Computer Science and Art. Suitably prepared students from other Carnegie Mellon colleges are eligible to apply for internal transfer to the School of Computer Science and will be considered for transfer if grades in specific requirements are sufficiently high and space is available. Consult the program websites for specific requirements for transfer requests. Computation-oriented programs are also available within the Mellon College of Science, the Dietrich College of Humanities and Social Sciences, the College of Engineering and the College of Fine Arts.

Policies & Procedures

Academic Standards and Actions

Grading Practices

Grades given to record academic performance in SCS are detailed under Grading Practices at Undergraduate Academic Regulations (http://coursecatalog.web.cmu.edu/aboutcmu/undergraduateacademicregulations/).

Dean's List WITH HIGH HONORS

SCS recognizes each semester those undergraduates who have earned outstanding academic records by naming them to the Dean's List with High Honors. The criterion for such recognition is a semester quality point average of at least 3.75 while completing a minimum of 36 factorable units and earning no incomplete grades.

Academic Actions

In the first year, quality point averages below 1.75 in either semester invoke an academic action. For all subsequent semesters an academic action will be taken if the semester quality point average or the cumulative quality point average (excluding the first year) is below 2.00.

Probation: The action of probation will be taken in the following cases based on QPA:

1. One semester of the first year is below 1.75 QPA;
2. The semester QPA of a student in good standing beyond the first year falls below 2.00.

The term of probation is one semester as a full-time student. First year students are no longer on probation at the end of the second semester if the second semester's QPA and the cumulative QPA is 1.75 or above. Students in the third or subsequent semester of study are no longer on probation at the end of one semester if the semester QPA and cumulative QPA (excluding the first year) are 2.00 or above.

Probation Continued: A student who has had one semester on probation and is not yet meeting minimum requirements but whose record indicates that the standards are likely to be met at the end of the next semester of study may be continued on probation, based on advisor recommendation. This action is normally taken only when a student's semester QPA is above 2.0 but their cumulative QPA is not yet above 2.0.

Suspension: A student who does not meet minimum standards based on QPA at the end of one semester of probation can be suspended:

- A first year student will be suspended if the QPA from each semester is below 1.75.
- A student on probation in the third or subsequent semester of study will be suspended if the semester QPA is below 2.00.

The minimum period of suspension is one academic year (two non-summer semesters). Suspension is meant to allow a student to take a pause from their academic studies to address the issues that are causing poor academic performance. At the end of that period a student may return to campus (on probation) by:

1. completing a Return from Leave form from the HUB and submitting this form to their academic advisor, and
2. submitting an additional written statement to their academic advisor and the SCS Associate Dean for Undergraduate Programs, minimum one page, that outlines what the student did while on leave to address

the issues that led to the suspension and that would indicate future success on return, and

3. (optional) submitting up to two letters of support from individuals supporting the student's return to the academic advisor and the SCS Associate Dean for Undergraduate Programs.

Upon review by the student's academic advisor and the Associate Dean for Undergraduate Programs, in consultation with the Office of Student Affairs and the Office of International Education as appropriate, the student may be approved to continue their studies.

Students who have been suspended or have withdrawn are required to absent themselves from the campus (including residence halls and Greek houses) within a maximum of two days after the action and to remain off the campus for the duration of the time specified. This action includes debarment from part-time or summer courses at the university for the duration of the period of the action. Although suspended students may not hold student jobs, students on academic suspension may, under certain circumstances, have a non-student job with the university. Students on disciplinary or administrative suspension may not.

Drop: This is a permanent severance. Students who have been suspended and who fail to meet minimum standards in the subsequent semester(s) after they return to school on probation will be dropped from the School of Computer Science. Students who have been dropped and are not admitted to another program at the university are required to absent themselves from the campus (including residence halls and Greek houses) within a maximum of two days after the action.

Appeal: Students may appeal a suspension or drop decision in writing within 10 business days of notification if, under consultation with their academic advisor, they feel that the decision was made in error and they have additional information that would indicate that they can continue in the next semester and exit their probationary status. Instructions on the appeal process are given in the suspension letter that is sent to the student.

Other Actions: In addition to academic actions based on QPA, the Associate Dean for Undergraduate Programs may place students on probation, subsequent suspension or drop, if they do not demonstrate reasonable progress through the core curriculum of their major (e.g., not completing a core class after 3 attempts, not completing the required 100-level core courses by the end of the sophomore year, etc.). Students are encouraged to consult with their academic advisor about any concerns with regard to lack of progress in their chosen SCS major to determine if any course drop or withdrawal will lead to an action.

The relation indicated above between probation, suspension and drop is nominal. In unusual circumstances, SCS College Council may suspend or drop a student without prior probation.

Leave of Absence and Return from Leave of Absence

SCS undergraduate students may elect to take a leave of absence for a variety of reasons, after consultation with their academic advisor. Students who wish to take a leave of absence must do so by the last day of classes before final exams begin and before final grades are posted (in case this is earlier). Students requesting a leave of absence must complete a form from the HUB and have this signed by their academic advisor and SCS Associate Dean for Undergraduate Programs. Students who take a leave of absence up to the last day to drop classes will have all of their classes dropped. Students who take a leave of absence after the last day to drop classes will be assigned a grade of W (withdrawal) for all of their classes.

Students returning from a leave of absence are required to submit a Return from Leave of Absence form to their academic advisor for approval by the student's academic advisor and the SCS Associate Dean for Undergraduate Programs. In addition, for students taking a leave for academic reasons, the student must also supply a letter that explains the reason for the leave, the actions that were performed during the leave to prepare the student for a successful return, and a description of the on-campus resources, if required, that would be used by the student in order to increase the likelihood of success. Students returning from a leave are also encouraged to provide up to two letters of support from people close to the student (e.g. family, friends, clergy, teachers, coaches, others as appropriate). Requests to return are reviewed by the student's academic advisor, the Associate Dean and the Student Affairs liaison to determine eligibility and any resources that need to be put into place to assist the student upon return. Contact the SCS Undergraduate Office (GHC 4115) for more information.

Internal Transfer within SCS

First year students admitted to SCS are considered undeclared during their first year. These students declare their SCS major in the middle of the second semester of their first year of study. SCS students who wish to transfer from one SCS major to another SCS major may do so by applying for transfer by mid-semester break during the semester the transfer is desired (or the end of the summer session for summer transfers). These students should consult with their academic advisor and the program director of the intended major for more information about specific course requirements and academic plans. Internal SCS transfers do not have any grade requirements. Transfers are approved based on demonstrated interest, ability, and available space in the intended major. Consult the website for the individual SCS major for more information about expected courses to take to demonstrate interest and ability. The transfer request form is available on the SCS website.

Transfer into SCS / Dual-Degree

Undergraduate students admitted to colleges at CMU other than SCS and wishing to transfer to SCS or pursue a dual degree in SCS should consult with the Director or Program Coordinator of the desired SCS major during their first year. See the individual program pages for the names of the current directors and program coordinators, along with their contact information.

- For the Artificial Intelligence primary major, students must complete 15-122, 15-150, 15-281, 10-315, one of 15-210, 15-213 or 15-251, and one of 36-225, 21-325, 36-218 or 15-259, with an expected overall QPA over these six courses of 3.6 or higher.and an overall QPA of at least 3.0, in order to be considered for transfer or dual degree.
- For the Computational Biology primary major, students must complete 21-127 (or equivalent), 15-122, 15-251, 15-351 (or 15-210*), 03-121 and either 02-251 or 02-250 with an expected overall QPA over these six courses of 3.6 or higher and an overall QPA of at least 3.0, in order to be considered for transfer or dual degree. (*Students who take 15-210 will need to also take 15-150; this course is not required for the B.S. in Computational Biology but can count as an elective.)
- For the Computer Science primary major, students must complete 21-127 (or equivalent), 15-122, 15-150, 15-210, 15-213, 15-251 with an expected overall QPA over these six courses of 3.6 or higher and an overall QPA of at least 3.0, in order to be considered for transfer or dual degree.
- For the Human-Computer Interaction primary major, students must complete 21-127 (or equivalent), 15-122, 15-150, 05-410, one of 15-210 or 15-213, and one of 05-470 or 05-651, with an expected overall QPA over these six courses of 3.6 or higher and an overall QPA of at least 3.0, in order to be considered for transfer or dual degree.
- For the Robotics primary major, students must complete 21-127 (or equivalent), 15-122, 15-213, 15-251, one of the following robotics courses: 16-211, 16-299, 16-311 (or Robot Building when launched), and one of 36-225, 21-325, 36-218 or 15-259, with an expected overall QPA over these 6 courses of 3.6 or higher and an overall QPA of at least 3.0, in order to be considered for transfer or dual degree.

Students may apply for transfer by the start of the mid-semester break in the semester when the final course(s) of the six required courses will be completed (or the end of the summer session for summer transfer requests). In the case of course(s) in progress, the mid-semester grades will be used in the QPA calculation. The decision to allow transfer or dual degree will be made by committee based on the student's academic performance (in the specified courses and in their courses overall if necessary), additional involvement in SCS and other computing-related activities, and availability of space in the student's class level. Students should consult the SCS Undergraduate Office for complete information concerning minimum requirements, instructions and deadlines.

External Transfer

A student currently enrolled at another university or college who wishes to transfer to SCS should first apply through the Office of Admission. If the Office of Admission believes the applicant meets admission guidelines, the student's record is sent to SCS for evaluation. Admission is based on seat availability, overall academic performance and course rigor from the student's current institution, ability to complete the rigorous SCS program on time, and the application material including recommendations and reflection essay(s). It is important to note that extremely few external

transfers are admitted to the SCS program at Carnegie Mellon University due to space limitations.

Graduation Requirements

1. A requirement for graduation is the completion of the program specified for a degree with a cumulative quality point average of 2.00 or higher for all courses taken at CMU. (Students who start their undergraduate study at CMU may meet this requirement without the first year of study, if necessary.)
2. Students must be recommended for a degree by the faculty of SCS.
3. A candidate for the bachelor's degree must complete at the University a minimum of four semesters of full-time study, or the equivalent of part-time study, comprising at least 180 units of course work.
4. Students will be required to have met all financial obligations to the university before being awarded a degree.

A student who does not meet the QPA requirement above must petition SCS College Council for a waiver of the first requirement.

General Education Requirements

All undergraduate degrees in the School of Computer Science include depth in their particular field of study but also breadth through the general education requirements. General education requirements are part of SCS degrees to give students an opportunity to learn more about the world from scientific and humanistic points of view. These additional skills are useful for graduates since computing is often embedded in domains that are not entirely within the bounds of computing. SCS students will need to use their computing skills to solve problems alongside scientists and engineers, artists, social and cognitive scientists, historians, linguists, economists and business experts, and SCS students will need to communicate effectively and understand the ethical implications of their work. The general education requirements help SCS students gain this broad perspective so they can work well in a wide variety of domains.

Science and Engineering

All candidates for a B.S. degree in the School of Computer Science must complete a minimum of 36 units offered by the Mellon College of Science and/or the College of Engineering (CIT).

Computational Biology majors

For Computational Biology majors, consult the Computational Biology (http://coursecatalog.web.cmu.edu/schools-colleges/schoolofcomputerscience/undergraduatecomputatonalbiology/) program page for specific science and engineering requirements. The required science and engineering courses for the Computational Biology major also satisfy the General Education requirement for SCS by default.

Artificial Intelligence, Computer Science and Human-Computer Interaction majors

For Artificial Intelligence, Computer Science and Human-Computer Interaction majors, four courses in science and engineering are required, 9 units or more for each course, at least one course must have a laboratory component and at least two courses must be from the same department. Consult with your SCS undergraduate advisor for possible use of any mini course for this requirement which needs to be reviewed by your advisor and the SCS Associate Dean for Undergraduate Programs.

Non-lab courses that are usually taken by AI, CS and HCI majors to satisfy this requirement are given in the list below. (Consult your academic advisor for additional choices available each semester.)

02-223	Personalized Medicine: Understanding Your Own Genome (can be paired with a course in Biology 03-xxx for two courses in one department)	9
03-121	Modern Biology	9
03-125	Evolution	9
03-132	Basic Science to Modern Medicine	9
03-133	Neurobiology of Disease	9
06-100	Introduction to Chemical Engineering	12
09-105	Introduction to Modern Chemistry I	10
09-106	Modern Chemistry II	10
09-217	Organic Chemistry I	9
09-218	Organic Chemistry II	9
09-225	Climate Change: Chemistry, Physics and Planetary Science	9

12-100	Exploring CEE: Infrastructure and Environment in a Changing World	12
12-201	Geology	9
18-095	Getting Started in Electronics: An Experiential Approach	9
18-100	Introduction to Electrical and Computer Engineering	12
18-220	Electronic Devices and Analog Circuits	12
18-240	Structure and Design of Digital Systems	12
24-101	Fundamentals of Mechanical Engineering	12
24-231	Fluid Mechanics	10
24-261	Mechanics I: 2D Design	10
24-291-24-381	Environmental Systems on a Changing Planet - Environmental Systems on a Changing Planet: Science Engineering Addendum (must take both courses together)	12
24-351	Dynamics	10
24-358	Culinary Mechanics	9
27-215	Thermodynamics of Materials	12
33-114	Physics of Musical Sound	9
33-120	Science and Science Fiction	9
33-121 or 33-141 or 33-151	Physics I for Science Students Physics I for Engineering Students Matter and Interactions I	12
33-142 or 33-152	Physics II for Engineering and Physics Students Matter and Interactions II	12
33-224	Stars, Galaxies and the Universe	9
33-226	Physics of Energy	9
42-101	Introduction to Biomedical Engineering	12
42-202	Physiology	9
85-219	Foundations of Brain and Behavior (can be paired with a course in Biology 03-xxx for two courses in one department)	9

At present, courses meeting the lab requirement include:

02-261	Quantitative Cell and Molecular Biology Laboratory (can be paired with a course in Biology 03-xxx for two courses in one department)	9
02-262	Computation and Biology Integrated Research Lab (can be paired with a course in Biology 03-xxx for two courses in one department)	Var.
03-124	Modern Biology Laboratory	9
09-101	Introduction to Experimental Chemistry (This 3 unit lab together with 09-105 satisfies the lab requirement.)	3
09-221	Laboratory I: Introduction to Chemical Analysis	12
27-100	Engineering the Materials of the Future	12
33-104	Experimental Physics	9
33-228	Electronics I	10
42-203	Biomedical Engineering Laboratory	9
85-310	Research Methods in Cognitive Psychology	9
85-314	Cognitive Neuroscience Research Methods	9

The following MCS and CIT courses cannot be used to satisfy the Science and Engineering requirement (see note below this list for additional exceptions and conditions):

03-511	Computational Molecular Biology and Genomics	9
04-330	Fundamentals of Software Development and Problem Solving	12
06-262	Mathematical Methods of Chemical Engineering	12
09-103	Atoms, Molecules and Chemical Change	9
09-108	The Illusion and Magic of Food	6
09-109	Kitchen Chemistry Sessions	3
09-110	The Design and Making of Skin and Hair Products	3
09-114	Basics of Food Science	3
09-204	Professional Communication Skills in Chemistry	3
09-209	Kitchen Chemistry Sessions	3
09-231	Mathematical Methods for Chemists	9
12-215	Introduction to Professional Writing in CEE	9

12-271	Computation and Data Science for Civil & Environmental Engineering	9
18-090	Twisted Signals: Multimedia Processing for the Arts	10
18-200	ECE Sophomore Seminar	1
18-202	Mathematical Foundations of Electrical Engineering	12
18-213	Introduction to Computer Systems	12
18-330	Introduction to Computer Security	12
18-334	Network Security	12
18-335	Secure Software Systems	12
18-411	Computational Techniques for Data Science and Engineering	12
18-441	Computer Networks	12
18-460	Optimization	12
18-461	Introduction to Machine Learning for Engineers	12
18-462	Principles and Engineering Applications of AI	12
18-465	Advanced Probability & Statistics for Engineers	12
18-482	Telecommunications Technology and Policy for the Internet Age	12
18-487	Introduction to Computer Security	12
18-540	Rapid Prototyping of Computer Systems	12
19-101	Introduction to Engineering and Public Policy	12
19-211	Ethics and Policy Issues in Computing (or 17-200)	9
19-213	The American Railroad: Decline and Renaissance in the Age of Deregulation	6
19-301	Decision Making Methods for Engineers and Scientists	9
19-303	Cryptocurrencies, Blockchains and Applications	9
19-351	Applied Methods for Technology-Policy Analysis	9
19-402	Telecommunications Technology and Policy for the Internet Age	12
19-403	Policies of Wireless Systems	12
19-411	Science and Innovation Leadership for the 21st Century: Firms, Nations, and Tech	9
19-421	Emerging Energy Policies	9
19-425	Sustainable Energy for the Developing World	9
19-433	Data Science for Technology, Innovation and Policy	9
19-534	Usable Privacy and Security	9
19-608	Privacy Policy, Law, and Technology	12
24-281	Introduction to Scientific Computing	2
24-311	Numerical Methods	12
27-410	Computational Techniques in Engineering	12
33-100	Basic Experimental Physics	6
33-115	Physics for Future Presidents	9
33-124	Introduction to Astronomy	9
33-232	Mathematical Methods of Physics	10
42-201	Professional Issues in Biomedical Engineering	3
49-300	Integrated Product Conceptualization	12

All Electrical and Computer Engineering graduate courses [18-6xx, 18-7xx, 18-8xx, 18-9xx] cannot be used for this requirement. Students interested in Engineering & Public Policy (19-xxx) courses that are not excluded above, including special topics courses, must consult with their SCS undergraduate advisor and the SCS Associate Dean for Undergraduate Programs to determine suitability for this requirement. In general, any MCS or CIT courses that are cross-listed with SCS courses or have significant mathematical or computational content **cannot** be used for this requirement. Students must consult with an SCS undergraduate advisor about any course to be used for the Science and Engineering requirement before registration.

Humanities and Arts

All candidates for a B.S. degree in the School of Computer Science must complete a minimum of 63 units offered by the College of Humanities & Social Sciences and/or the College of Fine Arts as prescribed below. Students pursuing a Bachelor's in Computer Science and Art (http://coursecatalog.web.cmu.edu/intercollegeprograms/bxaintercollege/#bcsacurriculumtext) should consult the general education requirements for that program.

A. Freshman Writing Requirement (9 units)

Complete one of the following writing options for 9 units:

76-101	Interpretation and Argument	9
76-102	Advanced First Year Writing: Special Topics (by invitation only)	9

or two of these three writing minis for 9 units total:

76-106	Writing about Literature, Art and Culture	4.5
76-107	Writing about Data	4.5
76-108	Writing about Public Problems	4.5

B. Breadth Requirement (minimum 27 units: 9 units each)
Complete three courses, one each from Category 1, Category 2, and Category 3. Students may use two minis totaling 9 units or more to satisfy one of the categories, with permission of the Associate Dean for Undergraduate Education, if the minis meet the goals of the desired category. **NOTE: Artificial Intelligence majors replace Category 1 with Category 1A: Cognitive Studies which is a subset of Category 1.**

Category 1 (for all SCS majors except Artificial Intelligence): Cognition, Choice and Behavior - this requirement explores the process of thinking, decision making, and behavior in the context of the individual.

70-311	Organizational Behavior	9
70-318	Managing Effective Work Teams	9
80-101	Dangerous Ideas in Science and Society	9
80-130	Introduction to Ethics	9
80-150	Nature of Reason	9
80-180	Nature of Language	9
80-221	Philosophy of Social Science	9
80-270	Problems of Mind and Body: Meaning and Doing	9
80-271	Mind and Body: The Objective and the Subjective	9
80-275	Metaphysics	9
80-330	Ethical Theory	9
85-102	Introduction to Psychology	9
85-104	Psychopathology	9
85-211	Cognitive Psychology	9
85-213	Human Information Processing and Artificial Intelligence	9
85-221	Principles of Child Development	9
85-241	Social Psychology	9
85-251	Personality	9
85-261	Psychopathology	9
85-370	Perception	9
85-408	Visual Cognition	9
85-421	Language and Thought	9
88-120	Reason, Passion and Cognition	9
88-230	Human Intelligence and Human Stupidity	9

Category 1A (for Artificial Intelligence majors): Cognitive Studies - this requirement explores how the brain and the mind work.

85-211	Cognitive Psychology	9
85-213	Human Information Processing and Artificial Intelligence	9
85-370	Perception	9
85-408	Visual Cognition	9
85-421	Language and Thought	9

Category 2 (all SCS majors): Economic, Political and Social Institutions - this requirement explores the processes by which institutions organize individual preferences and actions into collective outcomes.

19-101	Introduction to Engineering and Public Policy	12
36-303	Sampling, Survey and Society	9
66-221	Topics of Law: Introduction to Intellectual Property Law	9
70-332	Business, Society and Ethics	9
73-102	Principles of Microeconomics	9
73-103	Principles of Macroeconomics	9
73-230	Intermediate Microeconomics	9
73-240	Intermediate Macroeconomics	9
76-425	Rhetoric, Science, and the Public Sphere	9
79-101	Making History: How to Think About the Past (and Present)	9

79-189	Democracy and History: Thinking Beyond the Self	9
79-237	Comparative Slavery	9
79-244	Women in American History	9
79-253	Imperialism and Decolonization in South Asia	9
79-300	History of American Public Policy	9
79-320	Women, Politics, and Protest	9
79-321	Documenting Human Rights	9
79-331	Body Politics: Women and Health in America	9
79-370	Technology in the United States	9
79-383	The History of Capitalism	9
79-391	Nations and Nationalisms in South Asia	9
79-392	Europe and the Islamic World	9
80-135	Introduction to Political Philosophy	9
80-136	Social Structure, Public Policy & Ethics	9
80-244	Environmental Ethics	9
80-245	Medical Ethics	9
80-324	Philosophy of Economics	9
80-335	Social and Political Philosophy	9
80-334	Social and Political Philosophy	9
80-348	Health, Human Rights, and International Development	9
84-104	Decision Processes in American Political Institutions	9
84-110	Foundations of Political Economy	9
84-275	Comparative Politics	9
84-310	International Political Economy	9
84-322	Nonviolent Conflict and Revolution	9
84-324	The Future of Democracy	9
84-352	Representation and Voting Rights	9
84-362	Diplomacy and Statecraft	9
84-365	The Politics of Fake News and Misinformation	9
84-380	US Grand Strategy	9
84-386	The Privatization of Force	9
84-387	Remote Systems and the Cyber Domain in Conflict	9
84-389	Terrorism and Insurgency	9
84-390	Social Media, Technology, and Conflict	9
84-393	Legislative Decision Making: US Congress	9
84-402	Judicial Politics and Behavior	9
84-405	The Future of Warfare	9
88-281	Topics in Law: 1st Amendment	9
88-284	Topics of Law: The Bill of Rights	9

Category 3 (all SCS majors): Cultural Analysis - this requirement seeks to recognize cultures that have shaped and continue to shape the human experience; courses in this category are usually either broad in place, time, or cultural diversity.

48-240	History of World Architecture, I	9
48-241	History of Modern Architecture	9
57-173	Survey of Western Music History	9
60-105	Cultural History of the Visual Arts	9
60-106	Cultural History of the Visual Arts - the Modern Period	9
62-371	Photography, The First 100 Years, 1839-1939	9
70-342	Managing Across Cultures	9
70-348	Cross-Cultural Business Communications	9
76-221	Books You Should Have Read By Now	9
76-232	Introduction to Black Literature	9
76-239	Introduction to Film Studies	9
76-241	Introduction to Gender Studies	9
76-243	Introduction to Television	9
79-145	Genocide and Weapons of Mass Destruction	9
79-201	Introduction to Anthropology	9
79-202	Flesh and Spirit: Early Modern Europe, 1400-1750	9
79-223	Mexico: From the Aztec Empire to the Drug War	9
79-226	African History: Earliest Times to 1780	9
79-229	The Origins of the Palestinian-Israeli Conflict, 1880-1948	9

79-230	The Arab-Israeli Conflict and Peace Process since 1948	9
79-234	Technology and Society	9
79-240	Development of American Culture	9
79-241	African American History: Africa to the Civil War	9
79-242	African American History: Reconstruction to the Present	9
79-245	Capitalism and Individualism in American Culture	9
79-248	U.S. Constitution & the Presidency	9
79-261	The Last Emperors: Chinese History and Society, 1600-1900	9
79-262	Modern China: From the Birth of Mao ... to Now	9
79-265	Russian History: Game of Thrones	9
79-281	Introduction to Religion	9
79-282	Europe and the World Since 1800	9
79-288	Bananas, Baseball, and Borders: Latin America and the United States	9
79-316	Photography, the First 100 Years, 1839-1939	9
79-345	Roots of Rock & Roll	9
79-350	Early Christianity	9
76-386	Language & Culture	9
79-104	Global Histories	9
79-293	Inward Odyssey	9
79-378	Gender in South Asia	9
79-393	Institutions of the Roman Church	9
79-395	The Arts in Pittsburgh	9
79-396	Music, Art, and Society in 19th and 20th Century Europe and the U.S.	9
79-465	The Arts in Qatar	9
80-100	Introduction to Philosophy	9
80-250	Ancient Philosophy	9
80-251	Modern Philosophy	9
80-253	Continental Philosophy	9
80-254	Analytic Philosophy	9
80-255	Pragmatism: Making Ideas Work	9
80-261	Experience, Reason, and Truth	9
80-276	Philosophy of Religion	9
82-267	Beyond the Mafia and Michelangelo	9
82-273	Introduction to Japanese Language and Culture	9
82-279	Anime - Visual Interplay between Japan and the World	9
82-280	Billingual & Bicultural Experiences in the US	9
82-286	Cultural Complexities	9
82-293	Russian Cinema: From the Bolshevik Revolution to Putin's Russia	9
82-294	19th Century Russian Masterpieces	9
82-303	French & Francophone Cultures	9
82-304	French & Francophone Sociolinguistics	9
82-313	Topics in Modern Arabic Language, Literature and Culture	9
82-314	Literature of the Arabic-speaking World	9
82-327	The Emergence of the German Speaking World	9
82-333	Chinese Language and Culture	9
82-342	Spain: Language and Culture	9
82-343	Latin America Language and Culture	9
82-344	U.S. Latinos: Language and Culture	9
82-345	Introduction to Hispanic Literary and Cultural Studies	9
82-436	Introduction to Classical Chinese	9

C. Humanities and Arts Electives (minimum 27 units)

Complete 3 non-technical courses of at least 9 units each from any of the departments in the Dietrich College of Humanities & Social Sciences or the College of Fine Arts. Some of the courses taught in these units are considered technical courses and may not be used to satisfy this requirement (see Deletions below). Additionally, a select set of courses from Business Administration and from Environmental and Public Policy can also count for this requirement (see Additions below). Students may combine humanities/arts courses with lower units together to form a single course of 9 units or more. Students are encouraged, but not required, to take courses from different departments to gain additional breadth and to create new opportunities for engagement with the university community.

Deletions

Some courses from the Dietrich College or the College of Fine Arts may not count toward the unconstrained electives in Humanities and Arts in SCS due to the technical (computing and/or mathematical) nature of the courses. Courses from the following departments do not count toward the unconstrained Humanities and Arts electives:

- Statistics and Data Science (36), except 36-303 Sampling, Survey and Society
- Information Systems (67)
- Economics (73), except 73-102 Principles of Microeconomics and 73-103 Principles of Macroeconomics

Additionally, the following courses do NOT count toward the unconstrained Humanities and Arts electives:

51-257	Introduction to Computing for Creative Practices	10
51-327	Design Center: Introduction to Web Design	9
51-328	Design Center: Design for Digital Systems	9
76-388	Coding for Humanists	9
76-481	Introduction to Multimedia Design	12
76-487	Web Design	12
80-210	Logic and Proofs	9
80-211	Logic and Mathematical Inquiry	9
80-212	Arguments and Logical Analysis	9
80-305	Game Theory	9
80-310	Formal Logic	9
80-311	Undecidability and Incompleteness	9
80-315	Modal Logic	9
80-316	Logic and AI	9
80-325	Foundations of Causation and Machine Learning	9
80-405	Game Theory	9
80-411	Proof Theory	9
80-413	Category Theory	9
80-419	Interactive Theorem Proving	9
80-514	Categorical Logic	9
80-521	Seminar on Formal Epistemology: Belief and Evidence	Var.
85-219	Foundations of Brain and Behavior	9
85-310	Research Methods in Cognitive Psychology	9
85-314	Cognitive Neuroscience Research Methods	9
85-414	Cognitive Neuropsychology	9
85-426	Learning in Humans and Machines	9
88-251	Empirical Research Methods	9
88-372	Social and Emotional Brain	9

Additions

The following courses outside of Dietrich College and the College of Fine Arts may count toward the unconstrained Humanities and Arts electives:

11-423	ConLanging: Lrng. Ling. & Lang Tech via Constru Artif. Lang.	12
16-161	ROB Freshman Seminar: Artificial Intelligence and Humanity	9
16-397	Art, Conflict and Technology	12
17-333	Privacy Policy, Law, and Technology	9
17-562	Law of Computer Technology	9
19-101	Introduction to Engineering and Public Policy	12
19-351	Applied Methods for Technology-Policy Analysis	9
19-402	Telecommunications Technology and Policy for the Internet Age	12
19-403	Policies of Wireless Systems	12
19-411	Science and Innovation Leadership for the 21st Century: Firms, Nations, and Tech	9
21-150	Mathematics and the Arts	9
32-201	Leadership & Management	9
32-402	Leadership and Ethics	9
70-100	Global Business	9
70-311	Organizational Behavior	9
70-318	Managing Effective Work Teams	9
70-321	Negotiation and Conflict Resolution	9
70-332	Business, Society and Ethics	9
70-340	Business Communications	9
70-341	Team Dynamics and Leadership	9
70-342	Managing Across Cultures	9
70-345	Business Presentations	9
70-348	Cross-Cultural Business Communications	9
70-350	Acting for Business	9
70-365	International Trade and International Law	9
70-381	Marketing I	9
70-430	International Management	9

Honors Research Thesis

Students considering going on to graduate school in Computer Science or related disciplines should take a wide variety of Computer Science and Mathematics courses, as well as consider getting involved in independent research as early as possible. This would be no later than the junior year and can begin even earlier. Students interested in graduate school in computer science or its related areas are strongly encouraged to participate in the SCS Honors Undergraduate Research Thesis program. Additionally, graduate CS courses can be taken with permission of the instructor and in consultation with an academic advisor.

The goal of the SCS Honors Undergraduate Research Thesis Program is to introduce students to the breadth of tasks involved in independent research, including library work, problem formulation, experimentation, analysis, technical writing and public speaking. In particular, students write a short paper summarizing prior results and current progress in their desired area of research, present a public poster session in December of their senior year describing their current progress, present their final results with a poster and an oral presentation in the year-end university-wide Undergraduate Research Symposium (Meeting of the Minds) and submit a written thesis at the end of their senior year. Students work closely with faculty research advisors to plan and carry out their research. The 07-599 SCS Honors Undergraduate Research Thesis typically starts in the fall semester of the senior year, and spans the entire senior year. Students receive a total of 36 units of academic credit for the thesis work, 18 units per semester. Students should prepare their research prospectus (i.e. proposal of work) during the spring semester of their junior year, and students in this program are advised to plan their schedules carefully to ensure there is ample time to perform the required research for the thesis during the senior year.

Students interested in research are urged to consult with their undergraduate advisor and the SCS Associate Dean for Undergraduate Programs no later than the end of their sophomore year in order to plan their workload effectively. Although there is no specific QPA requirement to participate, students are expected to have at least a 3.5 QPA in the core SCS topics relevant to their proposed research to be successful in their work. For those students with no background in research, they may consider using 07-300 Research and Innovation in Computer Science (9 units) as an introduction to the research process in their junior year since this course will introduce students to various research projects going on in the School of Computer Science and important skills that are needed to be an effective researcher. This course leads to a subsequent research practicum, 07-400 Research Practicum in Computer Science (12 units), that allows students to complete a small-scale research study or experiment and present a research poster. Students who use this practicum to start their senior thesis can use the units toward the required 36 units. Students should consult with their academic advisor concerning how the units earned toward the senior thesis can be used toward elective requirements for their major.

Interested juniors should submit a project prospectus of 3-4 pages by the end of their junior year, although submissions over the summer prior to the senior year will also be considered for review. A prospectus must include:

- The name of the research advisor (an SCS faculty member)
- A short abstract (two paragraphs, max)
- A description of the problem to be worked on and its significance
- A tactical description of the proposed research plan, including:
  - a description of the background reading to be carried out,
  - a description of the research contribution,
  - a description of the expected results of the research, and
  - a reasonably detailed timeline for the thesis work
- A bibliography of related work (all references belong here)
- The signature of the research advisor, signifying endorsement of the project and willingness to supervise and evaluate it (or an email confirmation from the research advisor)

Students who need help finding potential advisors should get in touch with their academic advisor or the Associate Dean for Undergraduate Programs. Applications to the program are due by the start of the senior year, although submission of applications in the junior year is encouraged.

Students completing an outstanding senior thesis based on the judgement of the SCS Undergraduate Review Committee will earn SCS College Honors and can compete for various SCS research awards given out during commencement.

Faculty

UMUT ACAR, Associate Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2012–

ANIL ADA, Associate Teaching Professor, Carnegie Mellon University – Ph.D., McGill University; Carnegie Mellon, 2014–

HENNY ADMONI, Associate Professor, Robotics Institute – Ph.D., Yale University; Carnegie Mellon, 2017–

YUVRAJ AGARWAL, Associate Professor, Institute for Software Research – Ph.D., University of California, San Diego; Carnegie Mellon, 2013–

JONATHAN ALDRICH, Professor, Institute for Software Research – Ph.D., University Of Washington; Carnegie Mellon, 2003–

VINCENT ALEVEN, Professor, Human-Computer Interaction Institute – Ph.D., University Of Pittsburgh; Carnegie Mellon, 2000–

DANIEL ANDERSON, Assistant Teaching Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2023–

DAVID ANDERSEN, Professor, Computer Science Department – Ph.D., Massachusetts Institute Of Technology; Carnegie Mellon, 2005–

JOHN ANDERSON, R.K. Mellon University Professor – Ph.D., Stanford University; Carnegie Mellon, 1978–

DIMITRIOS APOSTOLOPOULOS, Principal Systems Scientist, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1989–

SWARNALATHA ASHOK, Associate Teaching Professor, Institute for Software Research – MSc(Tech), Birla Institute of Technology and Science; Carnegie Mellon, 2022–

CHRISTOPHER ATKESON, Professor, Robotics Institute – Ph.D., Massachusetts Institute Of Technology; Carnegie Mellon, 2000–

JAMES BAGNELL, Associate Professor, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2004–

ANDREA BAJCSY, Assistant Professor, Robotics Institute – Ph.D., University of California, Berkeley; Carnegie Mellon, 2023–

MARIA FLORINA BALCAN, Professor, Machine Learning Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2014–

STEPHANIE BALZER, Assistant Research Professor, Computer Science Department – Ph.D., ETH Zurich; Carnegie Mellon, 2016–

ZIV BAR-JOSEPH, Professor, Computational Biology Department – Ph.D., Massachusetts Institute Of Technology; Carnegie Mellon, 2003–

MATTHEW BASS, Assistant Teaching Professor, Institute for Software Research – M.S., Carnegie Mellon University; Carnegie Mellon, 2012–

LUJO BAUER, Professor, Institute for Software Research – Ph.D., Princeton University; Carnegie Mellon, 2015–

NATHAN BECKMANN, Associate Professor, Computer Science Department – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 2017–

TAYLOR BERG-KIRKPATRICK, Assistant Professor, Language Technologies Institute – Ph.D., University of California at Berkeley; Carnegie Mellon, 2016–

JEFFREY BIGHAM, Associate Professor, Human-Computer Interaction Institute – Ph.D., University of Washington; Carnegie Mellon, 2013–

YONATAN BISK, Assistant Professor, Language Technologies Institute – Ph.D, University of Illinois, Urbana- Champaign; Carnegie Mellon, 2020–

GUY BLELLOCH, Professor, Computer Science Department – Ph.D., Massachusetts Institute Of Technology; Carnegie Mellon, 1988–

MANUEL BLUM, University Professor Emeritus, Computer Science Department – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 2001–

CHRISTOPHER BOGART, Systems Scientist, Institute for Sofrware research – Ph.D., Oregon State University; Carnegie Mellon, 2017–

DAVID BOURNE, Principal Systems Scientist, Robotics Institute – M.S., University Of Pennsylvania; Carnegie Mellon, 1980–

DANIEL BOYARSKI, Professor – M.F.A., Indiana University; Carnegie Mellon, 1982–

TRAVIS BREAUX, Associate Professor, Institute for Software Research – Ph.D., North Carolina State University; Carnegie Mellon, 2010–

STEPHEN BROOKES, Professor, Computer Science Department – Ph.D., Oxford University; Carnegie Mellon, 1981–

RALF BROWN, Principal Systems Scientist, Language Technologies Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1993–

FRASER BROWN, Assistant Professor, Institute for Software Research – Ph.D., Stanford University; Carnegie Mellon, 2022–

RANDAL BRYANT, University Professor Emeritus, Computer Science Department – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 1984–

JAMES CALLAN, Professor and Director, Language Technologies Institute – Ph.D., University Of Massachusetts; Carnegie Mellon, 1999–

JAVIER CAMARA-MORENO, Systems Scientist, Institute for Software Research – Ph.D., University of Malaga; Carnegie Mellon, 2015–

OANA CARJA, Assistant Professor, Computational Biology – Ph.D., Stanford University; Carnegie Mellon, 2019–

KATHLEEN CARLEY, Professor, Institute for Software Research – Ph.D., Harvard University; Carnegie Mellon, 1984–

JACOBO CARRASQUEL, Associate Teaching Professor Emeritus, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1983–

PATRICK CARRINGTON, Assistant Professor, Human Computer Interaction Institute – Ph.D., University of Maryland; Carnegie Mellon, 2019–

JUSTINE CASSELL, Professor, Language Technologies Institute – Ph.D., University of Chicago; Carnegie Mellon, 2010–

ILIANO CERVESATO, Teaching Professor, Computer Science Department – Ph.D., University of Torino; Carnegie Mellon, 2016–

HENRY CHAI, Assistant Teaching Professor, Machine Learning Department – Ph.D., Washington University, Saint Louis; Carnegie Mellon, 2022–

TIANQI CHEN, Assistant Professor, Machine Learning Department / Computer Science Department – Ph.D, University of Washington; Carnegie Mellon, 2020–

HOWARD CHOSET, Professor, Robotics Institute – Ph.D., California Institute Of Technology; Carnegie Mellon, 1996–

NICOLAS CHRISTIN, Professor, Institute for Software Research – Ph.D., University of Virginia; Carnegie Mellon, 2017–

WILLIAM COHEN, Professor, Machine Learning Department – Ph.D., Rutgers University; Carnegie Mellon, 2003–

PHILLIP COMPEAU, Associate Teaching Professor, Computational Biology Department – Ph.D., University of California, San Diego; Carnegie Mellon, 2015–

VINCENT CONITZER, Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2022–

ALBERT CORBETT, Associate Research Professor Emeritus, Human-Computer Interaction Institute – Ph.D., University Of Oregon; Carnegie Mellon, 1983–

THOMAS CORTINA, Associate Dean for Undergraduate Programs and Teaching Professor, Computer Science Department – Ph.D., Polytechnic University (Brooklyn); Carnegie Mellon, 2004–

KEENAN CRANE, Associate Professor, Robotics Institute – Ph.D., California Institute of Technology; Carnegie Mellon, 2015–

LORRIE CRANOR, Professor, Institute for Software Research – Ph.D., Washington University; Carnegie Mellon, 2003–

KARL CRARY, Associate Professor, Computer Science Department – Ph.D., Cornell University; Carnegie Mellon, 1998–

LAURA DABBISH, Professor, Human Computer Interaction Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2007–

ROGER DANNENBERG, Professor Emeritus, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1982–

SAUVIK DAS, Assistant Professor, Human Computer Interaction Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2022–

PATHAK DEEPAK, Assistant Professor, Robotics Institute – Ph.D., University of California, Berkeley; Carnegie Mellon, 2020–

FERNANDO DE LA TORRE FRADE, Associate Research Professor, Robotics Institute – Ph.D., La Salle School of Engineering; Carnegie Mellon, 2002–

DAN DEBLASIO, Assistant Teaching Professor, Computational Biology Department – Ph.D., University of Arizona; Carnegie Mellon, 2023–

MONA DIAB, Professor, Language Technologies Institute – Ph.D., George Washington University; Carnegie Mellon, 2023–

FERNANDO DIAZ, Associate Professor, Language Technologies Institute – Ph.D., University of Massachusetts Amherst; Carnegie Mellon, 2023–

JOHN DOLAN, Principal Systems Scientist, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1991–

CHRIS DONAHUE, Assistant Professor, Language Technologies Institute – Ph.D., University of California San Diego; Carnegie Mellon, 2023–

ARTUR DUBRAWSKI, Research Professor, Robotics Institute – Ph.D., Institute of Fundamental Technological Research; Carnegie Mellon, 2003–

DAVID ECKHARDT, Teaching Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2003–

WILLIAM EDDY, Professor – Ph.D., Yale University; Carnegie Mellon, 1976–

JEFFREY EPPINGER, Professor Of The Practice, Institute for Software Research – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2001–

MICHAEL ERDMANN, Professor, Robotics Institute – Ph.D., Massachusetts Institute Of Technology; Carnegie Mellon, 1989–

ZACKORY ERICKSON, Assistant Professor, Robotics Institute – Ph.D, Georgia Institute of Technology; Carnegie Mellon, 2021–

MAXINE ESKENAZI, Principal Systems Scientist, Language Technologies Institute – Ph.D., University Of Paris; Carnegie Mellon, 1994–

MOTAHHARE ESLAMI, Assistant Professor, Human Computer Interaction Institute – Ph.D, University of Illinois, Urbana- Champaign; Carnegie Mellon, 2020–

SCOTT FAHLMAN, Professor Emeritus, Language Technologies Institute – Ph.D., Massachusetts Institute Of Technology; Carnegie Mellon, 1978–

CHRISTOS FALOUTSOS, Professor, Computer Science Department – Ph.D., University Of Toronto; Carnegie Mellon, 1997–

FEI FANG, Associate Professor, Institute for Software Research – Ph.D., University of Southern California; Carnegie Mellon, 2017–

JODI FORLIZZI, Professor, Director; Human-Computer Interaction Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2000–

SARAH FOX, Assistant Professor, Human Computer Interaction Institute – Ph.D, University of Washington; Carnegie Mellon, 2020–

KATE FRAGKIADAKI, Associate Professor, Machine Learning Department – Ph.D., University of Pennsylvania ; Carnegie Mellon, 2016–

ROBERT FREDERKING, Principal Systems Scientist, Language Technologies Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1991–

MATTHEW FREDRIKSON, Associate Professor, Computer Science Department – Ph.D., University of Wisconsin; Carnegie Mellon, 2015–

DANIEL FRIED, Assistant Professor, Language Technologies Institute – Ph.D., University of California at Berkeley; Carnegie Mellon, 2022–

JOHN GALEOTTI, Senior Systems Scientist, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2014–

DAVID GARLAN, Professor, Institute for Software Research – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1990–

CHARLES GARROD, Associate Teaching Professor, Institute for Software Research – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2012–

ANATOLE GERSHMAN, Distinguished Service Professor, Language Technologies Institute – Ph.D., Yale University; Carnegie Mellon, 2007–

HARTMUT GEYER, Associate Professor, Robotics Institute – Ph.D., Friedrich-Schiller University; Carnegie Mellon, 2010–

PHIL GIBBONS, Professor, Computer Science Department – Ph.D., University of California at Berkeley; Carnegie Mellon, 2015–

IOANNIS GKIOULEKAS, Associate Professor, Robotics Institute – Ph.D., Harvard; Carnegie Mellon, 2017–

CLARK GLYMOUR, University Professor – Ph.D., Indiana University; Carnegie Mellon, 1985–

MAYANK GOEL, Associate Professor, Institute for Software Research – Ph.D., University of Washington; Carnegie Mellon, 2016–

SETH GOLDSTEIN, Associate Professor, Computer Science Department – Ph.D., University Of California; Carnegie Mellon, 1997–

GEOFFREY GORDON, Professor, Machine Learning Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2001–

MATTHEW GORMLEY, Associate Teaching Professor, Machine Learning Department – Ph.D., John Hopkins University; Carnegie Mellon, 2015–

ALBERT GU, Assistant Professor, Machine Learning Department – Ph.D., Stanford University; Carnegie Mellon, 2023–

MARCAIS GUILLAUME, Senior Systems Scientist, Computational Biology Department – Ph.D., University of Maryland; Carnegie Mellon, 2020–

ABHINAV GUPTA, Professor, Robotics Institute – Ph.D., University of Maryland; Carnegie Mellon, 2011–

ANUPAM GUPTA, Professor, Computer Science Department – Ph.D., University Of California at Berkeley; Carnegie Mellon, 2003–

ZAKIA HAMMAL, Systems Scientist, Robotics Institute – Ph.D, University of Grenoble, France; Carnegie Mellon, 2021–

JESSICA HAMMER, Associate Professor, Human-Computer Interaction Institute – Ph.D., Columbia University; Carnegie Mellon, 2014–

MOR HARCHOL-BALTER, Professor, Computer Science Department – Ph.D., University Of California at Berkeley; Carnegie Mellon, 1999–

ROBERT HARPER, Professor, Computer Science Department – Ph.D., Cornell University; Carnegie Mellon, 1988–

ERIK HARPSTEAD, Senior Systems Scientist, Human-Computer Interaction Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2017–

CHRISTINA HARRINGTON, Assistant Professor, Human Computer Interaction Institute – Ph.D, Georgia Institute of Technology; Carnegie Mellon, 2021–

CHRISTOPHER HARRISON, Associate Professor, Human-Computer Interaction Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2014–

ALEXANDER HAUPTMANN, Research Professor, Language Technologies Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1994–

MARTIAL HEBERT, Dean of the School of Computer Science and Professor, Robotics Institute – Ph.D., Paris-XI; Carnegie Mellon, 1984–

HODA HEIDARI, Assistant Professor, Machine Learning Department – Ph.D., University of Pittsburgh; Carnegie Mellon, 2020–

DAVID HELD, Associate Professor, Robotics Institute – Ph.D., Stanford University; Carnegie Mellon, 2017–

VINCENT HELLENDOORN, Assistant Professor, Software and Societal Systems Department – Ph.D., University of California Davis; Carnegie Mellon, 2020–

JAMES HERBSLEB, Director, Professor, Institute for Software Research – Ph.D., University Of Nebraska; Carnegie Mellon, 2002–

MARIJN HEULE, Associate Professor, Computer Science Department – Ph.D., Delft University of Technology (Netherlands); Carnegie Mellon, 2019–

LEE HILLMAN, Executive Director of MHCI, Human-Computer Interaction Institute – M.S., Carnegie Mellon University; Carnegie Mellon, 2017–

MICHAEL HILTON, Associate Teaching Professor, Institute for Software Research – Ph.D., Oregon State University; Carnegie Mellon, 2017–

JESSICA HODGINS, Professor, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2001–

JAN HOFFMANN, Associate Professor, Computer Science Department – Ph.D., Ludwig-Maximilians-Universität and TU Munich; Carnegie Mellon, 2015–

RALPH HOLLIS, Research Professor Emeritus, Robotics Institute – Ph.D, University of Colorado; Carnegie Mellon, 1993–

JASON HONG, Associate Professor, Human-Computer Interaction Institute – Ph.D., University Of California at Berkeley; Carnegie Mellon, 2004–

DANIEL HUBER, Senior Systems Scientist, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2002–

SCOTT HUDSON, Professor, Human-Computer Interaction Institute – Ph.D., University Of Colorado; Carnegie Mellon, 1997–

JEFF ICHNOWSKI, Assistant Professor, Robotics Institute – Ph.D., University of North Carolina at Chapel Hill; Carnegie Mellon, 2023–

DAPHNE IPPOLITO, Assistant Professor, Language Technologies Institute – Ph.D., University of Pennsylvania; Carnegie Mellon, 2023–

FARNAM JAHANIAN, President, Carnegie Mellon University, and Professor, Computer Science Department – Ph.D., University of Texas at Austin; Carnegie Mellon, 2014–

AAYUSH JAIN, Assistant Professor, Computer Science Department – Ph.D, University of California, Los Angeles; Carnegie Mellon, 2021–

LASZLO JENI, Assistant Research Professor, Robotics Institute – Ph.D., University of Tokyo; Carnegie Mellon, 2018–

MATTHEW JOHNSON-ROBERSON, Professor, Director, Robotics Institute – Ph.D., University of Sydney; Carnegie Mellon, 2022–

MICHAEL KAESS, Associate Professor – Ph.D., Georgia Institute of Technology; Carnegie Mellon, 2013–

TAKEO KANADE, University Professor, Robotics Institute – Ph.D., Kyoto University; Carnegie Mellon, 1980–

EUNSUK KANG, Assistant Professor, Institute for Software Research – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 2017–

JOSHUA KANGAS, Assistant Teaching Professor, Computational Biology Department – PhD, Carnegie Mellon University; Carnegie Mellon, 2018–

GEORGE KANTOR, Research Professor, Robotics Institute – Ph.D., University of Maryland; Carnegie Mellon, 2002–

CHRISTIAN KASTNER, Associate Professor, Institute for Software Research – Ph.D., University of Magdeburg; Carnegie Mellon, 2012–

GEOFF KAUFMAN, Associate Professor, Human Computer Interaction Institute – Ph.D., Ohio State University; Carnegie Mellon, 2015–

DILSUN KAYNUR, Associate Teaching Professor, Computer Science Department – Ph.D., University of Edinburgh; Carnegie Mellon, 2012–

ALONZO KELLY, Professor, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1998–

SEUNGJUN KIM, Systems Scientist, Human-Computer Interaction Institute – Ph.D., Gwangju Institute of Science and Technology; Carnegie Mellon, 2011–

SEYOUNG KIM, Associate Professor, Computational Biology Department – Ph.D., University of California at Irvine; Carnegie Mellon, 2010–

CARL KINGSFORD, Professor, Computational Biology Department – Ph.D., Princeton University; Carnegie Mellon, 2012–

KRIS KITANI, Associate Research Professor, Robotics Institute – Ph.D., University of Tokyo; Carnegie Mellon, 2016–

ANIKET KITTUR, Professor, Human-Computer Interaction Institute – Ph.D., University of California At Los Angeles; Carnegie Mellon, 2009–

DANIEL KLUG, Systems Scientist, Institute for Software Research – Ph.D., University of Basel; Carnegie Mellon, 2021–

KENNETH KOEDINGER, Professor, Human-Computer Interaction Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1991–

ANNE KOHLBRENNER, Assistant Teaching Professor, Computer Science Department – Ph.D., Princeton University; Carnegie Mellon, 2023–

J. ZICO KOLTER, Associate Professor, Computer Science Department – Ph.D., Stanford University; Carnegie Mellon, 2012–

DAVID KOSBIE, Teaching Professor, Computer Science Department – M.S., Carnegie Mellon University; Carnegie Mellon, 2009–

PRAVESH KOTHARI, Assistant Professor, Computer Science Department – Ph.D., University of Texas at Austin; Carnegie Mellon, 2018–

IOANNIS KOUTIS, Adjunct Assistant Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2008–

ROBERT KRAUT, Herbert A. Simon Professor Emeritus, Human-Computer Interaction Institute – Ph.D., Yale University; Carnegie Mellon, 1993–

OLIVER KROEMER, Assistant Professor, Robotics Institute – Ph.D., Technische Universität Darmstadt; Carnegie Mellon, 2017–

CLAIRE LE GOUES, Associate Professor, Institute for Software Research – Ph.D., University of Virginia; Carnegie Mellon, 2013–

CHRISTIAN LEBIERE, Research Psychologist, Psychology – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1999–

EUN SUN LEE, Associate Teaching Professor, Institute for Software Research – M.S., Carnegie Mellon University; Carnegie Mellon, 2014–

TAI-SING LEE, Professor, Computer Science Department – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 1996–

TERRY E LEE, Associate Teaching Professor, Software and Societal Systems Department – M.Sc., Carnegie Mellon University; Carnegie Mellon, 2020–

LORRAINE LEVIN, Research Professor, Language Technologies Institute – Ph.D., Massachusetts Institute Of Technology; Carnegie Mellon, 1989–

YUANZHI LI, Assistant Professor, Machine Learning Department – Ph.D., Princeton University; Carnegie Mellon, 2019–

JAIOYANG LI, Assistant professor, Robotics Institute – Ph.D., University of Southern California; Carnegie Mellon, 2022–

LEI LI, Assistant Professor, Language Technologies Institute – Ph.D., University of California Santa Barbara; Carnegie Mellon, 2023–

MINCHEN LI, Assistant Professor, Computer Science Department – Ph.D., University of Pennsylvania; Carnegie Mellon, 2023–

MAXIM LIKACHEV, Professor, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2010–

CHANGLIU LIU, Assistant Professor, Robotics Institute – Ph.D., University of California, Berkeley; Carnegie Mellon, 2019–

JOSE LUGO-MARTINEZ, Assistant Professor, Computational Biology Department – Ph.D., Indiana University; Carnegie Mellon, 2022–

JIAN MA, Professor, Computational Biology Department – Ph.D., Pennsylvania State University ; Carnegie Mellon, 2016–

JOHN MACKEY, Teaching Professor, Computer Science Department and Mathematics Department – Ph.D., University of Hawaii; Carnegie Mellon, 2003–

ZACHARY MANCHESTER, Assistant Professor, Robotics Institute – Ph.D., Cornell University; Carnegie Mellon, 2020–

MELISA ORTA MARTINEZ, Assistant Professor, Robotics Institute – PH.D., Stanford University; Carnegie Mellon, 2020–

RUBEN MARTINS, Assistant Research Professor, Institute for Software Research – Ph.D, Technical university of Lisbon; Carnegie Mellon, 2018–

NIKOLAS MARTELARO, Assistant Professor, Human Computer Interaction Institute – Ph.D, Stanford University; Carnegie Mellon, 2020–

MATTHEW MASON, Professor Emeritus, Robotics Institute – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 1982–

AULDYN MATTHEWS-MCGEE, Assistant Teaching Professor, Human Computer Interaction Institute – MHCI, Carnegie Mellon University; Carnegie Mellon, 2023–

ROY MAXION, Research Professor, Computer Science Department – Ph.D., University Of Colorado; Carnegie Mellon, 1984–

JAMES MCCANN, Associate Professor, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2017–

BRUCE MCLAREN, Associate Research Professor, Human-Computer Interaction Institute – Ph.D., University Of Pittsburgh; Carnegie Mellon, 2003–

FLORIAN METZE, Associate Research Professor, Language Technologies Institute – Ph.D., Universität Karlsruhe; Carnegie Mellon, 2009–

NATHAN MICHAEL, Assistant Research Professor, Robotics Institute – Ph.D., University of Pennsylvania; Carnegie Mellon, 2012–

HEATHER MILLER, Assistant Professor, Institute for Software Research – Ph.D., École Polytechnique Fédérale de Lausanne; Carnegie Mellon, 2018–

EDUARDO MIRANDA, Teaching Professor, Institute for Software Research – M.S./M.Eng., University of Linköping/University of Ottawa; Carnegie Mellon, 2008–

TERUKO MITAMURA, Research Professor, Language Technologies Institute – Ph.D., University Of Pittsburgh; Carnegie Mellon, 1990–

TOM MITCHELL, University Professor, Machine Learning Department – Ph.D., Stanford University; Carnegie Mellon, 1986–

STEFAN MITSCH, Senior Systems Scientist, Computer Science Department – Ph.D., Johannes Kepler University; Carnegie Mellon, 2016–

HOSEIN MOHIMANI, Associate Professor, Computational Biology Department – Ph.D., University of California, San Diego; Carnegie Mellon, 2017–

ALAN MONTGOMERY, Associate Professor of Marketing – Ph.D., University Of Chicago; Carnegie Mellon, 1999–

IGOR MORDATCH, Assistant Professor, Robotics Institute – Ph.D., University of Washington; Carnegie Mellon, 2017–

LOUIS-PHILIPPE MORENCY, Associate Professor, Language Technologies Institute – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 2015–

DOMINIK MORITZ, Assistant Professor, Robotics Institute – Ph.D, University of Washington; Carnegie Mellon, 2020–

JAMES MORRIS, Professor, Emeritus, Human-Computer Interaction Institute – Ph.D., Massachusetts Institute Of Technology; Carnegie Mellon, 1982–

DAVID MORTENSEN, Assistant Research Professor, Language Technologies Institute – Ph.D, University of California, Berkeley; Carnegie Mellon, 2015–

JACK MOSTOW, Research Professor Emeritus, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1992–

TODD MOWRY, Professor, Computer Science Department – Ph.D., Stanford University; Carnegie Mellon, 1997–

KATHARINA MUELLING, Systems Scientist, Robotics Institute – Ph.D., Max Planck Institute for Intelligent Systems; Carnegie Mellon, 2013–

ROBERT MURPHY, Ray and Stephanie Lane Professor of Computational Biology Emeritus – Ph.D., California Institute of Technology; Carnegie Mellon, 1983–

BRAD MYERS, Professor, Human-Computer Interaction Institute – Ph.D., University Of Toronto; Carnegie Mellon, 1987–

PRIYA NARASIMHAN, Professor – Ph.D., University Of California; Carnegie Mellon, 2001–

SRINIVASA NARASIMHAN, Professor, Interim Director, Robotics Institute – Ph.D., Columbia University; Carnegie Mellon, 2004–

GRAHAM NEUBIG, Associate Professor, Language Technologies Institute – Ph.D., Kyoto University; Carnegie Mellon, 2016–

CHRISTINE NEUWIRTH, Professor – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2004–

ILLAH NOURBAKHSH, Professor, Robotics Institute – Ph.D., Stanford University; Carnegie Mellon, 1997–

ERIC NYBERG, Professor, Language Technologies Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1989–

RYAN O'DONNELL, Professor, Computer Science Department – Ph.D., Massachusetts Institute Of Technology; Carnegie Mellon, 2006–

KEMAL OFLAZER, Associate Dean of Research, Language Technologies Institute – Ph.D, Carnegie Mellon University; Carnegie Mellon, 2008–

AMY OGAN, Associate Professor, Human-Computer Interaction Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2014–

DAVID O'HALLARON, Professor, Computer Science Department – Ph.D., University of Virginia; Carnegie Mellon, 1989–

JEAN OH, Associate Research Professor, Robotics Institute – Ph.D, Carnegie Mellon University; Carnegie Mellon, 2019–

IRVING OPPENHEIM, Professor – Ph.D., University of Cambridge; Carnegie Mellon, 1973–

MATTHEW O'TOOLE, Assistant Professor, Robotics Institute and Computer Science Department – Ph.D., University of Toronto; Carnegie Mellon, 2018–

RICCARDO PACCAGNELLA, Assistant Professor, Software and Societal Systems Department – Ph.D., University of Illinois Urbana-Champaign; Carnegie Mellon, 2023–

ROHAN PADHYE, Assistant Professor, Software and Societal Systems Department – Ph.D., University of California, Berkeley; Carnegie Mellon, 2020–

PATRICK PARK, Assistant Professor, Institute for Software Research – Ph.D, Cornell University; Carnegie Mellon, 2021–

BRYAN PARNO, Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2017–

JIGNESH PATEL, Professor, Computer Science Department – Ph.D., University of Wisconsin Madison; Carnegie Mellon, 2023–

DEEPAK PATHAK, Assistant Professor, Robotics Institute – Ph.D, University of California, Berkeley; Carnegie Mellon, 2020–

SCOTT PAVETTI, Assistant Teaching Professor, Software and Societal Systems Department – MSE, Carnegie Mellon University; Carnegie Mellon, 2020–

ANDREW PAVLO, Associate Professor, Computer Science Department – Ph.D., Brown University; Carnegie Mellon, 2013–

RICHARD PENG, Associate Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2023–

ADAM PERER, Assistant Professor, Human Computer Interaction Institute – Ph.D., University of Maryland; Carnegie Mellon, 2018–

JUERGEN PFEFFER, Assistant Research Professor, Institute for Software Research – Ph.D., Vienna University of Technology; Carnegie Mellon, 2012–

ANDREAS PFENNING, Associate Professor, Computational Biology Department – Ph.D., Duke University; Carnegie Mellon, 2015–

FRANK PFENNING, Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1986–

BARNABAS POCZOS, Associate Professor, Machine Learning Department – Ph.D., Eötvös Loránd University; Carnegie Mellon, 2012–

NANCY POLLARD, Professor, Robotics Institute – Ph.D., Massachusetts Institute Of Technology; Carnegie Mellon, 2002–

ADITI RAGHUNATHAN, Assistant Professor, Computer Science Department – Ph.D., Stanford University; Carnegie Mellon, 2022–

BRIAN RAILING, Associate Teaching Professor, Computer Science Department – Ph.D., Georgia Institute of Technology; Carnegie Mellon, 2016–

BHIKSHA RAJ RAMAKRISHNAN, Professor, Language Technologies Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2008–

DEVA RAMANAN, Professor, Robotics Institute – Ph.D., University of California at Berkeley; Carnegie Mellon, 2015–

PRADEEP RAVIKUMAR, Professor, Machine Learning Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2016–

RAJ REDDY, University Professor, Institute for Software Research – Ph.D., Stanford University; Carnegie Mellon, 1969–

ANDREJ RISTESKI, Assistant Professor, Machine Learning Department – Ph.D., Princeton University; Carnegie Mellon, 2019–

KELLY RIVERS, Associate Teaching Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2017–

CAMERON RIVIERE, Research Professor, Robotics Institute – Ph.D., Johns Hopkins University; Carnegie Mellon, 1995–

DAVID ROOT, Associate Teaching Professor, Institute for Software Research – M.P.M., Carnegie Mellon University; Carnegie Mellon, 2002–

CAROLYN ROSE, Professor, Language Technologies Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2003–

RONALD ROSENFELD, Professor and Department Head, Machine Learning Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1995–

STEPHANIE ROSENTHAL, Associate Teaching Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2019–

STEVEN RUDICH, Professor, Computer Science Department – Ph.D., University of California; Carnegie Mellon, 1989–

ALEXANDER RUDNICKY, Professor Emeritus, Language Technologies Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1980–

MATTHEW RUFFALO, Systems Scientist, Computational Biology Department – Ph.D., Case Western Reserve University; Carnegie Mellon, 2016–

FERAS SAAD, Assistant Professor, Computer Science Department – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 2023–

NORMAN SADEH-KONIECPOL, Professor, Institute for Software Research – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1991–

MAJD SAKR, Teaching Professor, Computer Science Department – Ph.D., University of Pittsburgh; Carnegie Mellon, 2006–

RUSLAN SALAKHUTDINOV, Professor, Machine Learning Department – Ph.D., University of Toronto; Carnegie Mellon, 2016–

TUOMAS SANDHOLM, Professor, Computer Science Department – Ph.D., University of Massachusetts; Carnegie Mellon, 2001–

MAARTEN SAP, Assistant Professor, Language Technologies Institute – Ph.D., University of Washington; Carnegie Mellon, 2022–

MAHADEV SATYANARAYANAN, Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1983–

RICHARD SCHEINES, Dean, Dietrich College and Professor, Philosophy – Ph.D., University of Pittsburgh; Carnegie Mellon, 1988–

SEBASTIAN SCHERER, Associate Research Professor, Robotics Institute – Ph.D, Carnegie Mellon University; Carnegie Mellon, 2010–

BRADLEY SCHMERL, Principal Systems Scientist, Computer Science Department – Ph.D., Flinders University of South Australia; Carnegie Mellon, 2000–

JEFF SCHNEIDER, Research Professor, Robotics Institute – Ph.D., University of Rochester; Carnegie Mellon, 1995–

RUSSELL SCHWARTZ, Professor of Biological Sciences and Department Head, Computational Biology Department – Ph.D, Massachusetts Institute of Technology; Carnegie Mellon, 2002–

DANA SCOTT, Professor Emeritus, Computer Science Department – Ph.D., Princeton University; Carnegie Mellon, 1981–

TEDDY SEIDENFELD, Herbert A. Simon Professor – Ph.D., Columbia University; Carnegie Mellon, 1985–

SRINIVASAN SESHAN, Professor and Department Head, Computer Science Department – Ph.D., University of California; Carnegie Mellon, 2000–

NIHAR SHAH, Associate Professor, Machine Learning Department – Ph.D., University of California at Berkeley; Carnegie Mellon, 2017–

MICHAEL SHAMOS, Teaching Professor, Language Technologies Institute and Institute for Software Research – Ph.D., Yale University; Carnegie Mellon, 1975–

MARY SHAW, University Professor, Institute for Software Research – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1965–

SKIP SHELLY, Associate Teaching Professor, Human Computer Interaction Institute – B.F.A., Carnegie Mellon University; Carnegie Mellon, 2017–

HONG SHEN, Assistant Research Professor, Human Computer Interaction Institute – Ph.D., University of Illinois, Urbana-Champaign; Carnegie Mellon, 2018–

JUSTINE SHERRY, Associate Professor, Computer Science Department – Ph.D., University of California at Berkeley; Carnegie Mellon, 2017–

GUANYA SHI, Assistant Professor, Robotics Institute – Ph.D., California Institute of Technology; Carnegie Mellon, 2023–

HIROKAZU SHIRADO, Assistant Professor, Human Computer Interaction Institute – Ph.D., Yale University; Carnegie Mellon, 2019–

DOUGLAS SICKER, Professor, Institute for Software Research – Ph.D., University of Pittsburgh; Carnegie Mellon, 2014–

MEL SIEGEL, Associate Research Professor Emeritus, Robotics Institute – Ph.D., University of Colorado; Carnegie Mellon, 1982–

DANIEL SIEWIOREK, Buhl University Professor Emeritus, Computer Science Department – Ph.D., Stanford University; Carnegie Mellon, 1972–

REID SIMMONS, Research Professor, Robotics Institute – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 1988–

AARTI SINGH, Professor, Machine Learning Department – Ph.D., University of Wisconsin At Madison; Carnegie Mellon, 2009–

RITA SINGH, Associate Research Professor, Language Technologies Institute – Ph.D., National Geophysical Research Institute; Carnegie Mellon, 2010–

MICHAEL SKIRPAN, Assistant Teaching Professor, Software and Societal Systems Department – Ph.D., University of Colorado Boulder; Carnegie Mellon, 2023–

DANIEL SLEATOR, Professor, Computer Science Department – Ph.D., Stanford University; Carnegie Mellon, 1985–

STEPHEN SMITH, Research Professor, Robotics Institute – Ph.D., University of Pittsburgh; Carnegie Mellon, 1982–

VIRGINIA SMITH, Assistant Professor, Machine Learning Department – Ph.D., University of California at Berkeley; Carnegie Mellon, 2018–

PETER SPIRTES, Professor, Philosophy – Ph.D., University of Pittsburgh; Carnegie Mellon, 1983–

JOHN STAMPER, Associate Professor, Human-Computer Interaction Institute – Ph.D., University of North Carolina At Charlotte; Carnegie Mellon, 2009–

PETER STEENKISTE, Professor, Computer Science Department – Ph.D., Stanford University; Carnegie Mellon, 1987–

MARK STEHLIK, Teaching Professor, Computer Science Department – B.S., Pace University; Carnegie Mellon, 1981–

AARON STEINFELD, Research Professor, Robotics Institute – Ph.D., University of Michigan; Carnegie Mellon, 2001–

GEORGE STETTEN, Adjunct Research Professor, Robotics Institute – Ph.D., University of North Carolina; Carnegie Mellon, 1999–

EMMA STRUBELL, Assistant Professor, Language Technologies Institute – Ph.D, University of Massachusetts, Amherst; Carnegie Mellon, 2020–

JOSHUA SUNSHINE, Systems Scientist, Institute for Software Research – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2014–

KLAUS SUTNER, Teaching Professor, Computer Science – Ph.D., University of Munich; Carnegie Mellon, 1995–

KATIA SYCARA, Research Professor, Robotics Institute – Ph.D., Georgia Institute of Technology; Carnegie Mellon, 1987–

WENNIE TABIB, Systems Scientist, Robotics Institute – Ph.D, Carnegie Mellon University; Carnegie Mellon, 2021–

AMEET TALWALKAR, Associate Professor, Machine Learning Department – Ph.D., New York University, Courant Institute; Carnegie Mellon, 2017–

MICHAEL TAYLOR, Assistant Teaching Professor, Computer Science Department – MSR, Carnegie Mellon University; Carnegie Mellon, 2020–

ZEYNEP TEMEL, Assistant Professor, Robotics Institute – Ph.D., Sabanci University (Istanbul, Turkey); Carnegie Mellon, 2019–

CHRIS TIMPERLEY, Senior Systems Scientist, Software and Societal Systems – Ph.D., University of York, UK; Carnegie Mellon, 2018–

DAVID TOURETZKY, Research Professor, Computer Science Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1984–

MATTHEW TRAVERS, Senior Systems Scientist, Robotics Institute – Ph.D., Northwestern University; Carnegie Mellon, 2013–

BOGDAN VASILESCU, Associate Professor, Institute for Software Research – Ph.D., Eindhoven University of Technology; Carnegie Mellon, 2016–

MARIA MANUELA VELOSO, Professor Emeritus, Machine Learning Department – Ph.D, Carnegie Mellon University; Carnegie Mellon, 1992–

RASHMI VINAYAK, Associate Professor, Computer Science Department – Ph.D., University of California at Berkeley; Carnegie Mellon, 2017–

LAURA VINCHESI, Assistant Teaching Professor, Human Computer Interaction Institute – MFA, Cranbrook Art Academy; Carnegie Mellon, 2023–

PAT VIRTUE, Assistant Teaching Professor, Computer Science Department and Machine Learning Department – Ph.D., University of California at Berkeley; Carnegie Mellon, 2018–

ALEXANDER WAIBEL, Professor, Language Technologies Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1988–

WEINA WANG, Assistant Professor, Computer Science Department – Ph.D., Arizona State University; Carnegie Mellon, 2018–

WENSHEN WANG, Systems Scientist, Robotics Institute – Ph.D., Shanghai Jiao Tong University; Carnegie Mellon, 2023–

LEILA WEHBE, Assistant Professor, Machine Learning Department – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2018–

DAVID WETTERGREEN, Research Professor, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2000–

WILLIAM RED WHITTAKER, University Research Professor, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 1973–

BRYAN WILDER, Assistant Professor, Machine Learning Department – Ph.D., Harvard University; Carnegie Mellon, 2022–

DAVID WOODRUFF, Professor, Computer Science Department – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 2017–

WEI WU, Senior Systems Scientist, Computational Biology Department – Ph.D., Rutgers University; Carnegie Mellon, 2011–

SHERRY TONGSHUAN WU, Assistant Professor, Human Computer Interaction Institute – Ph.D., Washington University, Saint Louis; Carnegie Mellon, 2022–

STEVEN WU, Assistant Professor, Software and Societal Systems Department – Ph.D., University of Pennsylvania; Carnegie Mellon, 2020–

FRANCESKA XHAKAJ, Assistant Teaching Professor, Computer Science Department/ Human Computer Interaction Institute – Ph.D, Carnegie Mellon University; Carnegie Mellon, 2021–

POE ERIC XING, Professor, Machine Learning Department – Ph.D., University Of California At Berkeley; Carnegie Mellon, 2004–

CHENYAN XIONG, Associate Professor, Language Technologies Interaction Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2023–

MIN XU, Associate Professor, Computational Biology Department – Ph.D., University of Southern California; Carnegie Mellon, 2016–

YIMING YANG, Professor, Language Technologies Institute – Ph.D., Kyoto University; Carnegie Mellon, 1996–

NESRA YANNIER, Senior Systems Scientist, Human Computer Interaction Institute – Ph.D., Carnegie Melllon University; Carnegie Mellon, 2019–

LINING YAO, Associate Professor, Human Computer Interaction Institute – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 2017–

YUN WILLIAM YU, Assistant Professor, Computational Biology Department – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 2023–

WENZHEN YUAN, Assistant Professor, Robotics institute – Ph.D., Massachusetts Institute of Technology; Carnegie Mellon, 2019–

MARTIN ZHANG, Assistant Professor, Computational Biology Department – Ph.D., Stanford University; Carnegie Mellon, 2023–

JI ZHANG, System Scientist, Robotics Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2019–

HAIYI ZHU, Associate Professor, Human Computer Interaction Institute – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2019–

JUN-YAN ZHU, Assistant Professor, Robotics Institute – Ph.D, University of California, Berkeley; Carnegie Mellon, 2020–

JOHN ZIMMERMAN, Professor, Human-Computer Interaction Institute – M.Des., Carnegie Mellon University; Carnegie Mellon, 2002–