



Cmu cs masters

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The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. Read all News Toggle Visibility of Menu You can also download this data in Excel format. Individuals can be contacted using the SCS Directory: are typically taken away from campus during the summer semester; some programs allow on-campus summers without classes or tuition, typically involves more work than most classes, draws on learning from the rest of the program, produces a document and presentation, and satisfies a graduation requirement. After completion, professional program students typically obtain jobs in industry. Research program students typically enter Ph.D. programs. AdmissionsSelectivity is the ratio of student applications offered acceptance over applications received; some programs' requirements may diminish qualified candidates significantly. GRE score ranges are 25th percentile to 75th percentile; for example, 25% of the students offered acceptance by CMU had a score below the 25th percentile. GRE guantitative and verbal are scored between 130 and 170 in one-point increments. For percentiles of all test takers, see scope of % female is the fraction of students offered acceptance by CMU who identify as female.Enrolled includes deferrals from prior year who entered this year.Post-Degree PlacementData for students graduating in August 2022, December 2022 or May 2023. No salary statistics are reported when fewer than four salaries are reported.Cont'd Educ means some graduates continued in another educational program (Ph.D.). still seeking a desired destination. By popularity means in order of the destinations receiving the most students. Employers are only listed if they hired two or more students.* Students who obtained a master's degree while enrolled in a Ph.D. program are omitted. SCS offers a wide range of professional and academic master's programs across its seven departments. Admissions and requirements vary by program and are determined by the program's home department. Links to all departments and master's Programs Comparison Data includes statistics, facts and other information for each program. If you're interested in applying, be sure to visit our Graduate Admissions Overview page or read our Frequently Asked Questions. All Master's Programs by Department of highly automated systems for doing science. It provides training in the principles and hands-on use of robotic laboratory equipment, the fundamental computational biological methods for constructing predictive models in biology and medicine, and the methods of active machine learning and AI for automatically and iteratively choosing experiments to achieve a given goal. The program is designed for a diverse applicant pool and will be especially valuable to students with undergraduate degrees in biology seeking to gain advanced computational skills for jobs in the laboratory automation to Ph.D. programs. Master of Science in Computational Biology program seeks to train the world's best computational biologists at the master's level. The curriculum provides both breadth and depth of training in computational biology, computer sciences. The program is designed for students with backgrounds in quantitative and/or life sciences. Students often participate in summer research internships in life sciences, industry or academic research laboratories. MSCB graduates are prepared for rewarding jobs in industry or to pursue their doctoral degrees at top universities. The Fifth Year Master's in Computer Science is a direct master's program for students receiving a bachelor of computer science from Carnegie Mellon. The purpose and goal of the program is to encourage our very brightest undergraduate experience. Master of Science in Computer Science in Computer Science (MSCS) program offers students with a bachelor's degree the opportunity to extend their training with advanced study in computer science. Applicants should possess basic analytic skills and a strong aptitude for mathematical background is an important predictor of success. The Accelerated Master of Human-Computer Interaction program provides CMU undergraduate HCI majors with an opportunity to complete a master's in human-computer interaction in an additional two semesters following graduation. year, graduate in May with their undergraduate degree, and then go right into being a graduate student in the summer while complete their electives for the master's portion of the program. Students should apply by Nov. 1 of their senior year. Master of Educational Technology and Applied Learning Sciences (METALS) This interdisciplinary program trains students to design, develop and evaluate soft of take key positions in corporations, universities and schools as designers, developers and evaluators of educational technologies, as well as learning engineers, curriculum developers, learning technology policy-makers and even chief learning officers. Master of Human-Computer Interaction (MHCI) program is the first in the world dedicated to preparing professionals for careers related to human-computer interaction, user-experience design and user-centered research. The MHCI program integrates service and design thinking into a rigorous HCI curriculum that prepares our students to design and guide the future of human and technology interactions. Master of Science in Product ManagementThis 12-month master's program, a joint effort with the university's Tepper School of Business, provides both the technical skills and business acumen students need to return to industry prepared for their new careers. The Master of Computational Data Science (MCDS) concentrates on applying the scientific method to very large data systems. The degree focuses on scientific experimental design, data collection, data modeling and analysis, problem solving, and human-computer interaction. learning, statistics, large scale distributed systems, storage systems, etc. The degree trains technologists to create new large scale data science in Artificial Intelligence and InnovationThe Master of Science in Artif develop and deploy AI solutions to large practical problems. Students work in teams to implement AI systems that are responsive to market needs. Master of Science in Intelligent Information Systems (MIIS) degree focuses on recognizing and extracting meaning from text, spoken language, video, and other forms of unstructured information. It provides deep exposure to content analysis and machine learning. Master of Science in Language Technologies is a research-oriented degree in the areas of speech processing, language processing, information retrieval, machine translation and machine learning. Most MLT students are affiliated with an advisor's research project, in which they gain hands-on experience with advanced research and state-of-the-art software. An optional master's thesis project may also be chosen. Online Graduate Certificate in Machine Learning and Data Science FoundationsOrganizations know how important data is, but they don't always know what to do with the volume of data they have collected. That's why CMU designed the online Graduate Certificate in Machine Learning and Data Science Foundations - to teach technically savvy professionals how to leverage AI and machine learning technology to harness the power of large scale data systems. This 12-month, 100% online program will prepare participants for the staggering amount of data generated by today's rapidly changing world. The Fifth Year Master's in Machine Learning allows Carnegie Mellon undergraduates to earn an MS degree in one additional year by taking some of the required ML courses as an undergraduate. Master of Science in Machine LearningThe world's first and top-ranked machine learning program gives students the tools they need to solve real-world problems by using advanced machine learning their own learning world-class, interdisciplinary faculty. It strengthens students' skills in computer science and statistics to provide exceptional training for future leaders in the field. Computer vision is the study of acquiring and interpreting visual imagery. As the technology matures, its applications in industry continue to expand exponentially in areas of great commercial value. The goals of the 16-month (three semesters plus summer) MSCV program are to provide a robust set of courses encompassing current and emerging state-of-the-art computer vision topics that prepare students for careers in this field, and to facilitate hands-on experience through real research and development projects addressing current applications. Master of Science in Robotics master of science program brings together areas of robotics research that would otherwise be spread across different departments or separate universities, preparing students to take a leading role in the research and development of future generations of integrated robotics technologies and systems. Master's in Robotic Systems Development (MRSD) is an advanced graduates/practicing professionals already engaged in, or wishing to enter, the robotics and automation field as practitioners in the commercial sector. The Master in Privacy Engineering (MPE) is a 12- or 16-month program designed for computer scientists and engineers who wish to pursue careers as privacy managers. Designed in close collaboration with industry and government, this program is intended for students who aspire to play a critical role in building privacy into future products, services and processes. Master of Software EngineeringThis program is designed for software professionals with at least two years of experience who want to learn best practices in managing large, diverse software development projects with a focus on software architecture and software project management. The MSE program emphasizes increased industry engagement in small groups with greater elective flexibility. Master of Software Engineering - Embedded SystemsFor entry-level software design for internet of things (IoT) and cyber-physical systems using microcontrollers with real-time actuators and sensors. The program includes a required summer internship and team project with professional mentors. Master of Software Engineering - Scalable SystemsDesigned for entry-level software developers with less than two years of experience, the MSE-SS program focuses on achieving business objectives through highvelocity, continuous integration for large-scale, data-intensive and intelligent systems. The program is for software Engineering OnlineThis program is for software professionals with at least two years of experience who want to learn best practices in managing large, diverse software development projects with a focus on software architecture and software project management. The MSE Online program is part-time and culminates in a reflective practice thesis. You must submit the following with your application. Graduate Record Examination (GRE): The GRE is strongly recommended in order to apply to the MSCS program, especially for students who do not have clear documentation of strong mathematical proficiency. If you cannot provide GRE scores are waived for applicants who have graduated from, or are enrolled at, Carnegie Mellon University. The GRE at Home Test is not accepted unless the score date is between January 1, 2020 and May 31, 2021; or between August 1, 2022 and December 31, 2022. If you are submitting at-home GRE scores, describe the circumstances which made that necessary in your Statement of Purpose. TOEFL or IELTS Test: If you will be studying on an F-1 or J-1 visa, and English is not a native language for you (native language is defined as spoken at home from birth), we are required to formally evaluate your English proficiency via one of these standardized tests: TOEFL (preferred)IELTSDuolingoWe do not accept the "TOEFL ITP Plus for China," since speaking is not scored. Applicants currently in mainland China are encouraged to take the IELTS test. The Computer Science Department follows the Language Proficiency Policy set by the School of Computer Science and does not issue waivers for non-native English speakers. Please refer to details on the SCS Frequently Asked Questions page and in the Graduate Application Instructions. Transcripts: A PDF of your most recently Asked Questions page and in the Graduate Application Instructions. transcript from each college and/or university you attended, even if no degree was granted. Resume/CV: Please submit in PDF format. Statement of Purpose: Provide a concise one- or two-page essay describing your primary research interests, related experiences and objective in pursuing a Masters in computer science. Three letters of recommendation: At least two letters should be from faculty or recent employers. Reddit and its partners use cookies and similar technologies to provide you with a better experience. By accepting all cookies, you agree to our use of cookies and similar technologies to provide you with a better experience. advertising, and measure the effectiveness of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our Cookie Notice and our Privacy Policy. Computer Science (SCS) at Carnegie Mellon University in Pittsburgh, Pennsylvania, US is a school for computer science established in 1988. It has been consistently ranked among the best computer science programs over the decades. As of 2024 U.S. News & World Report ranks the graduate program as tied for No. 1 with Massachusetts Institute of Technology, Stanford University and University's School of Computer Science, Researchers from Carnegie Mellon University's School of Computer Science, computer networks, distributed systems, parallel processing, programming languages, computational biology, robotics, language technologies, human-computer interaction and Alan J. Perlis, in conjunction with the faculty from the Graduate School of Industrial Administration (GSIA, renamed Tepper School of Business in 2004), staff from the newly formed Computation Center, and key administrators created the Computer science of study leading to the PhD degree in computer science, a program that would exploit the new technology and assist in establishing a discipline of computer science." The educational program, formally accepted in October 1965, drew its first graduate students from several existing academic disciplines: mathematics, electrical engineering, psychology, and the interdisciplinary Systems and Communications Sciences program in the Graduate School of Industrial Administration. The department was housed within the Mellon College of Science. With support from Newell, Simon, Nico Haberman, Provost Angel Jordan and President Richard Cyert, the computer science department began to grow, both academically and financially. In 1988, the School of Computer Science Department within the school.[2] During the 1970s the Computer Science Department offered only a PhD study program, with no master's degree as an intermediate step. The PhD program required a minimum of six years of residency. It was called the "do or die" program among the graduate students, because a student could not drop a PhD and receive a master's degree. It had quickly focused on computer networking, operating systems (Hydra, Accent, Mach), and robotics. Ray and Stephanie Lane Computational Biology Department (CBD) Computer Science Department (CSD) Human-Computer Interaction Institute (HCII) Software and Societal Systems, which spans not only classical software engineering but also topics such as economics, social and organizational issues, public policy, and privacy. S3D is a distinct entity from the Software Engineering Institute (SEI). SEI is a FFRDC, which is sponsored by the U.S. Department of Defense and Hillman Centers The Randy Pausch memorial bridge has LEDs that glow different colours at night. The Gates Center for Computer Science and the Hillman Center for Future-Generation Technologies are home to much of the School of Computer Science, including about 310 offices, 11 conference rooms, 32 labs, 8,000 square feet (740 m2) of project space and the Planetary Robotics Center. It also houses to the Purnell Center, which houses the School of Drama, via the Randy Pausch Memorial Footbridge. The bridge represents Professor Pausch's own devotion to linking computer science and entertainment, as he was a co-founder of Carnegie Mellon's Entertainment Technology Center.[5] Mack Scogin Merril Elam Architects of Atlanta, Georgia were the lead architects.[3] The Gates and Hillman Centers have received LEED Gold Certification.[6] Main article: Carnegie Mellon University traditions Carnegie Mellon's Mobot Races, now in their 14th year, are hosted by the School of Computer Science during every Spring Carnival celebration. The Mobots (short for mobile robots) follow a slalom course painted in the sidewalk outside of Wean Hall. The Mobot Races used to include a MoboJoust competition. but it has not been held since 2002[7] to avoid damaging the Mobots.[8] SCS Day is a yearly celebration of computer science that started in 2003. The event features a variety of activities, including exhibits, workshops and games, in addition to an evening talent show.[9] SCS research professor Scott Fahlman is credited with the invention of the smiley face emoticon. He suggested the emoticon on an electronic board in 1982 as a way for board readers to know when an author was lott for nearly 20 years but was later recovered from backup tapes: [10] 19-Sep-82 11:44 Scott E Fahlman :-) From: Scott E Fahlman I propose that the following character sequence for joke markers: :-) Read it sideways. Actually, it is probably more economical to mark things that are NOT jokes - given current trends. For this, use :-(Tartan Racing is a collaboration between Carnegie Mellon and General Motors Corporation that competes in the DARPA Grand Challenge. The Grand Challenge is a competition for driverless cars sponsored by Defense Advanced Research Projects Agency (DARPA). Tartan Racing is led by Carnegie Mellon roboticist William L. "Red" Whittaker.[11] In 2007, Tartan Racing won the DARPA Urban Challenge, in which 11 autonomous ground vehicles raced over urban roboticist William L. "Red" Whittaker.[11] In 2007, Tartan Racing won the DARPA Urban Challenge, in which 11 autonomous ground vehicles raced over urban roboticist William L. "Red" Whittaker.[11] In 2007, Tartan Racing won the DARPA Urban Challenge, in which 11 autonomous ground vehicles raced over urban roboticist William L. "Red" Whittaker.[11] In 2007, Tartan Racing won the DARPA Urban Challenge, in which 11 autonomous ground vehicles raced over urban roboticist William L. "Red" Whittaker.[11] In 2007, Tartan Racing won the DARPA Urban Challenge, in which 11 autonomous ground vehicles raced over urban roboticist William L. "Red" Whittaker.[11] In 2007, Tartan Racing won the DARPA Urban Challenge, in which 11 autonomous ground vehicles raced over urban roboticist William L. 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Nico Habermann Chair in the School of Computer Science The Robert Doherty Prize for Excellence in Education Carnegie Mellon University Undergraduate Academic Advising Award Faculty members from the School of Computer Sciences, the National Academy of Engineering, the American Association for the Advancement of Science, the Association for Computing Machinery, the Institute for Electrical and Electronic Engineers, the Alfred P. Sloan Foundation, the MacArthur Fellowship Program, and the Guggenheim Fellowship Program, and the Guggenheim Fellowship Program. [14] Notably, thirteen SCS faculty and alumni have won the A. M. Turing Award, the Association for Computing Machinery's most prestigious award, [15] often called the "Nobel Prize of computer science, in addition to Emeritus Faculty Dana Scott and former faculty, in addition to Emeritus Faculty, in add human-computer interaction and design. Pausch was also a best-selling author, who became known around the world after he gave "The Last Lecture" speech on September 18, 2007 at Carnegie Mellon. Pausch was instrumental in the development of Alice, a computer teaching tool. He also co-founded Carnegie Mellon's Entertainment Technology Center. Randy Pausch died on July 25, 2008.[17] Mary Shaw is the Alan J. Perlis Professor of Computer Science in the Institute for Software engineering, and has lately become well known for her work on computer science education. Shaw was awarded the National Medal of Technology and Innovation on November 21, 2014.[18] Luis von Ahn is a Consulting Professor in the Computer Science Department, where he also received his PhD in 2005. Von Ahn was named a MacArthur Fellow in 2006 (called the "genius" grant).[19] He also created Games With a Purpose, a website where users can play games to help train computers to solve complicated problems, in addition to reCAPTCHA and Duolingo. William L. "Red" Whittaker is a roboticist and research professor of robotics at Carnegie Mellon students to win the Google Lunar X Prize.[20] Whittaker is the Fredkin Professor of Robotics Institute's Field Robotics Institute's Field Robotics Center[21] since its creation in 1983. Whittaker earned his master's and doctoral degrees in Civil Engineering from Carnegie Mellon in the late 1970s.[22] Raj Reddy is the University Professor of Computer Science and Robotics and Moza Bint Nasser Chair at the School of Computer science at Carnegie Mellon University. His areas of interest include artificial intelligence and human-computer interaction. He received the ACM Turning award in 1994. He received the French Legion of Honour in 1984 and Padma Bhushan award in 2001. He was also awarded the Honda Prize in 2005, and the Vannevar Bush Award in 2006.[23] Reddy was the founding directory of the Robotics Institute[24] and the Dean of School of Computer Science. He was one of the founders of the American Association for Artificial Intelligence[25] and was its President from 1987 to 1989.[26] Takeo Kanade is a U.A. and Helen Whitaker University Professor of Computer Science and Robotics. He is the director of the Quality of Life Technology Engineering Research center at Carnegie Mellon. His main areas of interest include computer vision, multi-media, manipulators, autonomous mobile robots, and sensors. [27] Hans Moravec is a research professor at the Robotics Institute with interests in mobile robots and artificial intelligence. He worked in the RI's Mobile Robot Lab, a research space designed to produce robots able to move through intricate indoor areas. [28] He also helped develop Moravec's paradox in the 1980s, which states that it is more difficult for computers to learn basic human instincts than human reason. Manuela M. Veloso is the Herbert A. Simon Professor at the School of Computer Science, Carnegie Mellon University. She is the President of the International RoboCup Federation that she co-founded and the President of the International RoboCup Federation that she co-founded and the President of the International RoboCup Federation that she co-founded and the President Elect of the Advancement of Artificial Intelligence. She is a fellow of the American Association for Artificial Intelligence, a fellow of the American Association for the Advancement of Science, and a Fellow of IEEE. Her research focus on the scientific and engineering challenges of creating teams of intelligent agents in complex, dynamic, and uncertain environments, in particular adversarial environments, such as robot soccer, that Cooperate, Observe the world, Reason, Act, and Learn. She currently researches and develops effective indoor mobile service robots aiming at contributing to a multi-robot, multi-human symbiotic relationship, in which robots and humans coordinate and cooperate as a function of their limitations and strengths. Manuel Blum is the Bruce Nelson Professor of Computer Science and a Turing Award winner. His wife Lenore Blum and son Avrim Blum are also professors in the FORE Systems Professor in the Institute for Software Research and served as the FORE Systems Professor in the School of Computer Science. introduced cross-lingual communication systems, such as consecutive and simultaneous interpreting systems on a variety of platforms. In fundamental research on machine learning, he is known for the Time Delay Neural Network, the first Convolutional Neural Network trained by gradient descent, using backpropagation. He is a member of the German National Academy of Science and a Fellow of the IEEE, ISCA and the Explorers Club. Waibel is the recipient of the IEEE James L. Flanagan Speech and Audio Processing and of the ACM ICMI Sustained Achievement Award. Kathleen Carley is a computational social scientist and a professor at the Software and Societal Systems Department. David Garlan is a professor at the Software and Societal Systems Department. Randal Bryant is a Founders University Professor of Computer Science. Daniel Siewiorek is the Buhl University Professor of Computer Science Emeritus at CMU. Michael Ian Shamos is a Distinguished Career Professor in the Software and Societal Systems Department and Language Technologies Institute Language Technologies Institute Language Technologies Institute Anguage Technologies Institute Anguage Technologies Institute Anguage Technologies Institute Software Engineering Institute Anguage Technologies Institute Anguage Techno SCS25 - Carnegie Mellon University School of Computer Science". www.cs.cmu.edu. Retrieved 2022-01-09. ^ a b Carnegie Mellon University. "Feb. 20: Henry L. Hillman Foundation Gives Carnegie Mellon \$10 Million For Research Building in New Computer Science". 16. ^ "SCS Complex Information and Blog » Overview". Archived from the original on May 9, 2008. Retrieved 2009-02-16. ^ University, Carnegie Mellon. "Press Release: Carnegie Mellon's Gates and Hillman Centers Awarded LEED Gold Certification - News - Carnegie Mellon University". www.cmu.edu. ^ "SCS Day 2015 - A Celebration of Diversity in SCS" cmu.edu. ^ "SMILEY:31 YEARS OLD AND NEVER LOOKED HAPPIER!". cmu.edu. ^ "Tartan Racing @ Carnegie Mellon". tartanracing.org. ^ Carnegie Mellon University. "Nov. 4: Carnegie Mellon University." Nov. 4: Carnegie Mellon ". tartanracing.org. ^ Carnegie Mellon University." Nov. 4: Carnegie Mellon University. "Nov. 4: Carnegie Mellon University." Nov. 4: Carnegie Mellon University." No Achievements". Cs.cmu.edu. Archived from the original on June 23, 2012. Retrieved 2012-06-09. ^ "SCS Faculty Awards". acm.org. Archived from the original on 2009-12-12. ^ "SCS FACULTY AWARDS". cmu.edu. ^ "Untitled Document". cmu.edu. ^ "Intitled Document Top Scientists and Innovators". whitehouse.gov. 2014-10-03 - via National Archived 2009-02-16. ^ Fenton 2000, p.197. ^ "rrlong". cmu.edu. Archived from the original on 2018-04-20. Retrieved 2009-02-16. > Fenton 2000, p.200. > "Origins of the American Association needed] > "Foundations and Grand Challenges of Artificial Intelligence". AI Magazine. 9 (4): 9-21. [verification needed] > "Takeo Kanade". Ri.cmu.edu. Retrieved 30 March 2019. ^ "Robotics Institute: Mobile Robot Lab". Archived from the original on May 14, 2008. Retrieved 2009-02-16. Fenton, Edwin (2000). Carnegie Mellon 1900-2000: A Centennial History. Pittsburgh: Carnegie Mellon 1900-2000: A Centennial Hillman Complex. Official website 40°26'37"N 79°56'40"W / 40.44371's 79.94443 Retrieved from " Home Academics Master's Programs The Computer Science Department offers three different master's options for students who have completed (or will complete) a bachelor's degree and want to extend their training in computer science. Our largest program is the M.S. in Computer Science, which allows students with undergraduate degrees in computer science or another technical field to work with their academic advisor to create their own course of study. We also offer a fifth-year master's program for current SCS undergraduates, and a 3-2 MBA program with CMU's Tepper School of Business. The Master of Science in Computer Science offers students with a bachelor's degree the opportunity to take their skills and a strong aptitude for mathematics, programming, and logical reasoning. You don't need a bachelor's degree in computer science specifically for the program, but a technical undergraduate background will set you up for success. Program Details We designed the Fifth Year Master's Program encourages our very brightest undergraduates to become involved with research that broadens their undergraduate experience. We also want to encourage a select group of students to continue to graduate school by providing them with an additional gualification and period of study beyond their undergraduate experience. interested in earning their bachelor's degree and MBA in five years may be interested in the Tepper School of Business's Accelerated MBA program. The program is administered by the Tepper Schoool, and more information is available on their web site