In 2004, Carnegie Mellon and Qatar Foundation began a partnership to deliver select programs that will contribute to the long-term development of Qatar. For nearly two decades, we have shared a mission: to provide a world-class education to students in Qatar.

Carnegie Mellon University in Qatar thanks **His Highness Sheikh Tamim Bin Hamad Al Thani**, Amir of the State of Qatar, for his leadership and commitment to progress and education.

We also express our deep appreciation to **His Highness the Father Amir Sheikh Hamad Bin Khalifa Al Thani**, **Her Highness Sheikha Moza bint Nasser**, Chairperson of Qatar Foundation, and **Her Excellency Sheikha Hind bint Hamad Al Thani**, Vice Chairperson and CEO of Qatar Foundation, for their vision and leadership.

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We are Carnegie Mellon

Our Vision
Carnegie Mellon University will have a transformative impact on society through continual innovation in education, research, creativity and entrepreneurship.

Our Mission
To create a transformative educational experience for students focused on deep disciplinary knowledge; problem-solving; leadership, communication and interpersonal skills; and personal health and well-being.

To cultivate a transformative university community committed to:
a) attracting and retaining diverse, world-class talent;
b) creating a collaborative environment open to the free exchange of ideas, where research, creativity, innovation and entrepreneurship can flourish; and
c) ensuring individuals can achieve their full potential.

To impact society in a transformative way—regionally, nationally and globally—by engaging with partners outside the traditional borders of the university campus.
Since its inception in 2004, Carnegie Mellon University in Qatar has reflected this university’s commitment to apply a globally inclusive mindset to our role as educators, knowledge creators and engines of economic impact.

Today, CMU-Q continues to train the world’s most talented students, with a total of 439 enrolled from 53 countries. These CMU-Q students are preparing to enter our technology-driven world as changemakers. I was thrilled to see many of them when I joined three CMU-Q classes for Commencement exercises this past year, which brought the total number of CMU-Q alumni to 1,117. Even though these alumni are still early in their careers, they are already contributing to the development of Qatar—and making an impact on our global society.

A focus on innovative learning and a transformative student experience defines CMU-Q. In addition to its popular programs in biological sciences, business administration, computer science, and information systems, the campus continues to find new and unique ways to engage with the CMU global community. We are providing these connections through innovative programs including study abroad, the Technology Consulting in the Global Community Program, Global Initiative, and micro courses, which are taught remotely by professors from our Pittsburgh campus and allow CMU-Q students to engage in topics that typically lie outside CMU-Q offerings, including artificial intelligence and society, blockchain, and computational medicine. CMU-Q also resumed campus exchange this year, with 47 students spending a semester on our Pittsburgh campus.

Our success to date would not be possible without the support of the Qatar Foundation, and the founding vision of His Highness the Father Amir, Sheikh Hamad bin Khalifa Al Thani, Her Highness Sheikha Moza bint Nasser, and Her Excellency Sheikha Hind bint Hamad Al Thani. I continue to be deeply grateful for this dynamic partnership.

I invite you to explore the events and accomplishments from the past year that are outlined in this annual report, along with our vision for the continued growth of CMU-Q. I congratulate you on what we have accomplished together, and I look forward to seeing how CMU-Q continues to contribute to our global Carnegie Mellon community in the coming years.

Farnam Jahanian
President, Carnegie Mellon University
From the **Dean**

Welcome to the Carnegie Mellon University in Qatar *Annual Report 2021-22.*

CMU-Q emerged from the pandemic during the 2021-22 academic year, moving forward as a community at a safe and careful pace. With the vast majority of our community members vaccinated, we incrementally returned to in-person classes and events. We focused on restoring the student experience that is at the heart of a Carnegie Mellon education.

This past year was fundamentally one of renewal and reconnection as we reintroduced the classroom experience. Faculty, staff and students alike reported how happy they were to be back together. As the year progressed, the CMU-Q building became once again a hub of exploration, collaboration, and enthusiasm.

To cap off an extraordinary year, we celebrated the graduation of the classes of 2020, 2021 and 2022 over three nights. At each ceremony, I noticed something unexpected: the enthusiasm in the audience was growing. As I left the stage after the last ceremony, I could hear that the cheers and applause were the loudest from one area of the audience. Seated together were many faces from the previous two nights. The classes of 2020 and 2021, who had just celebrated their own long-awaited graduation ceremonies, came back to support the newest cohort of alumni.

The pandemic was an exceptionally challenging time, but I am heartened to see the deep bonds of this encouraging, kind, and strong CMU-Q community. Although we come from many different backgrounds, we are connected through a shared joy of learning and discovery. We supported one another through the challenges of the pandemic, and we celebrated together as we emerged on the other side.

There are many milestones and achievements within the pages of the CMU-Q *Annual Report 2021-22.* Behind each of these individual accolades is our community, supporting and nurturing curiosity, creativity and discovery.

**Michael Trick**  
Dean, Carnegie Mellon University in Qatar
Graduation marks both the end of the undergraduate journey, and a new era as part of the Carnegie Mellon alumni network. There are more than 1,100 alumni from the Qatar campus, building their careers in Qatar and around the world. They are a group of enthusiastic young professionals who remain actively engaged with the CMU-Q community.
CMU-Q celebrated the 89 graduates of the Class of 2022 at an event that was also livestreamed to thousands of people all over the world.

Graduates by program

<table>
<thead>
<tr>
<th>Program</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Sciences</td>
<td>18</td>
</tr>
<tr>
<td>Business Administration</td>
<td>25</td>
</tr>
<tr>
<td>Computer Science</td>
<td>14</td>
</tr>
<tr>
<td>Information Systems</td>
<td>31</td>
</tr>
<tr>
<td>Dual Degree in Biological Sciences and Computer Science</td>
<td>01</td>
</tr>
</tbody>
</table>

“I am honored to be here today to celebrate this milestone with you, but this is not the end of your life as a Tartan. We are here to support you, guide you, and offer inspiration as you find your unique way to have your heart always in the work.”

Michael Trick
Dean

“Today, we return the tile to Dean Trick to install in the walkway leading to the building. Dean Trick, on behalf of the Class of 2022, thank you for installing this tile as a tribute to our class.”

Mubarak Al-Sulaiti
Class of 2022
Student Speaker

Farnam Jahanian
President, Carnegie Mellon University

Outstanding Academic Achievement Awards

<table>
<thead>
<tr>
<th>Biological Sciences</th>
<th>Computer Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laila Assami</td>
<td>Đorđe Popović</td>
</tr>
<tr>
<td>Business Administration</td>
<td>Information Systems</td>
</tr>
<tr>
<td>Enas Mohamad Mohsen</td>
<td>Fabiha Tahsin</td>
</tr>
</tbody>
</table>

Andrew Carnegie Society Scholars

| Fatima El-Sallabi           | Đorđe Popović             |
| Mohammed Tareef Sayed      | Fabiha Tahsin             |

Qatar Campus Scholars

| Fatima El-Sallabi           | Mohammed Tareef Sayed     |
| Đorđe Popović               | Fabiha Tahsin             |
Classes of 2020 and 2021

In May 2022, CMU-Q held separate graduation ceremonies for the classes of 2020 and 2021, whose formal celebrations had been postponed due to pandemic restrictions. The majority of the graduates returned to campus so they could be officially recognized as CMU-Q graduates.

“Whether you studied biological sciences, business, computer science, or information systems, you have each received exactly the tools you need to make extraordinary contributions to shaping our day-to-day lives and improving the human condition.”

Farnam Jahanian
President
Carnegie Mellon University

“In May 2022, CMU-Q held separate graduation ceremonies for the classes of 2020 and 2021, whose formal celebrations had been postponed due to pandemic restrictions. The majority of the graduates returned to campus so they could be officially recognized as CMU-Q graduates.”

Classes of 2020 and 2021

“The tradition of graduation is very important at CMU-Q, and I am delighted we could finally share this occasion with the classes of 2020 and 2021. This ceremony not only caps off the undergraduate experience, it is also a community celebration of our shared vision of knowledge and progress.”

Michael Trick
Dean

“This is the story of the Class of 2020 – unique, powerful and very present. May our presence keep contributing to science and business and technology; may our presence keep leading to positive change; and may it continue to embody what it means to have our heart in the work.”

Dona Ferdinando
Class of 2020 speaker

“Whether you studied biological sciences, business, computer science, or information systems, you have each received exactly the tools you need to make extraordinary contributions to shaping our day-to-day lives and improving the human condition.”

Farnam Jahanian
President
Carnegie Mellon University

“To my classmates, congratulations! We made it. We are making things happen. We are building the future.”

Naram Hajjar
Class of 2021 speaker
The Global Alumni Network

The CMU-Q alumni network extends throughout Qatar and beyond. Our alumni work at top organizations and creative new startups. They are influencing government policy, analyzing big data, spearheading creative projects, educating people, researching new ideas and working to improve the lives of others.

Alumni are working at top international organizations

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Alumni in Qatar

Most CMU-Q alumni either stay in Qatar, or return after gaining experience abroad to build their careers and contribute to the development of Qatar.

Education Excellence Day Awards

Five CMU-Q graduates were named as recipients of this year’s Education Excellence Day Awards: Aisha Al-Darwish (BA 2021), AlAnoud Al-Ghamdi (BA 2021), Reem Al-Haddad (IS 2021), Shouq Al-Khuzaei (IS 2021), and Reem Al-Sayed (BS 2021).

The awards were formally presented by His Highness the Amir, Sheikh Tamim Bin Hamad Bin Khalifa Al Thani.

Smart City Expo Doha

The CMU-Q booth at the Smart City Expo Doha conference was a hub of alumni reconnections. Over the two day event, the booth hosted graduates who work in the areas of tech and sustainability in Qatar.

Ajyal art exhibition

The artwork of AlAnoud Al-Ghamdi (BA 2021) and Reem Al-Haddad (IS 2021) was featured in an exhibition as part of the Doha Film Institute’s Ajyal Film Festival.

MENA InsurTech hackathon

Five alumni were on the winning team for InsurTech 2022, creating an artificial intelligence-based medical self-diagnosis algorithm. Abdurrahman ElZafarany (BS 2020), Youssef Kanbour (CB 2019), Abdul Manaam (IS 2022), Swapnendu Sanyal (CS 2020) and Omar Sinan (CS 2021) work for the health care startup, Rimads.

QF Alumni Reunion

CMU-Q drew a large contingent of alumni to the Qatar Foundation Alumni Reunion at Al Shaqab Indoor Arena. The event was an opportunity for alumni from the Qatar Foundation partner universities to reconnect and network.

QF alumni Instagram channel

- Anas Abouqamer (BA 2009) spoke about how to grow a social media community.
- Mariem Fakih Zguir (IS 2013) spoke about the role of education in sustainability.
Alumni Around the Globe

The first graduating class at CMU-Q was in 2008, and each year our alumni network grows in both numbers and achievements. These are just a few of our alumni accomplishments from around the world over the past year.

LinkedIn 2021 Top Startups in Indonesia
Rifki Pratomo’s (BA 2011) company Andalin ranked in the top ten of LinkedIn’s 2021 Top Startups in Indonesia. Andalin is an international trading and freight forwarding platform.

Alumni startup acquired by Africa’s Helium Health
Meddy, a startup that grew out of a CMU-Q class project, was acquired by Africa’s Helium Health. Haris Aghadi (IS 2014) and Abed Alkarim Khattab (BA 2016) joined Helium’s leadership team. In March, they received the Most Valuable Innovation Response to COVID-19 award at the Qatar Digital Business Awards.

Series A funding and Gates Foundation grant
The alumni startup Stellic was awarded a grant from the Bill and Melinda Gates Foundation to identify the technology challenges for students in under-represented and at-risk populations. Co-founders Sabih Bin Wasi (CS 2015), Rukhsar Neyaz (CS 2015), and Musab Popatia (CS 2016) also raised 11 million USD in Series A funding for the San Francisco-based business.

Artificial Intelligence in Schools
Varun Arora (IS 2012) published the book, Artificial Intelligence in Schools: A guide for teachers, administrators and technology leaders. Arora is the CEO of OpenCurriculum, an online tool that helps teachers design effective curricula.

Dubai alumni connections
The careers of many Carnegie Mellon alumni take them to Dubai, a regional hub for several industry sectors. In 2022, these alumni reconnected at a series of small gatherings.
Our student community is at the heart of all we do at Carnegie Mellon University in Qatar. During the admission cycle each year, we seek out applicants who are motivated and eager to learn. Together, our enrolled students form a global-minded community that is enthusiastic, encouraging and supportive.
The Admission Process

We consider each applicant to CMU-Q holistically: we look at academic excellence, special interests, leadership qualities, and the motivation to learn. Through this process, we select a diverse, talented class who will support and challenge one another.

Recruitment for the Class of 2026

During the recruitment cycle for the Class of 2026, application numbers rose by 17%, with more than 1,600 students vying for 115 spaces in the first-year class. The admitted class includes many students who have won notable national awards, and a number are considered among the best in their respective countries. The admitted class includes students from 105 high schools in 43 countries.

Pre-college workshops and programs

- Alice Programming Competition
- Code in Alice
- Discover IS
- Experience CMU-Q
- Game Developer Academy
- Ibtikar
- MindCraft
- Summer College Preview Program

Early Decision

A record number of high school students applied for Early Decision, and 27 students from a total of 20 high schools were offered admission.

Marhaba Tartans

To welcome the newly admitted students to the Class of 2026, CMU-Q held a Marhaba Tartans event. Students learned more about the university’s academic programs and student experience in the first in-person Marhaba Tartans since 2019.

The incoming class began their studies with a week of orientation activities, including a formal first-year convocation ceremony that was livestreamed.

117 students
33 nationalities
46 Qatari citizens

CLASS OF 2025

Pre-college workshops and programs

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117 students
33 nationalities
46 Qatari citizens

Annual Report 2021-2022
CMU-Q students come from remarkably diverse backgrounds, and they possess a wide spectrum of interests, talents and aspirations. They encourage and inspire one another to learn and explore.

Countries represented

Albania 
Algeria 
Australia 
Bahrain 
Bangladesh 
Canada 
China 
Cote d’Ivoire 
Egypt 
Eswatini 
Ethiopia 
Georgia 
Ghana 
Indonesia 
Iran 
Iraq 
Jordan 
Kazakhstan 
Kenya 
Korea 
Kuwait 
Lebanon 
Lesotho 
Malaysia 
Mongolia 
Morocco 
Myanmar 
Nepal 
Netherlands 
Oman 
Pakistan 
Palestine 
Philippines 
Qatar 
Romania 
Russia 
Rwanda 
Saint Kitts and Nevis 
Saudi Arabia 
Serbia 
Somalia 
South Africa 
Sri Lanka 
Sudan 
Syria 
Tanzania 
Tunisia 
Turkey 
United Kingdom 
United States of America 
Uzbekistan 
Vietnam

Financial aid

Financial aid options are a vital component of a diverse, competitive and strong CMU-Q student community. In 2021-22, there were several types of financial support available for our students.

- Amiri scholarship, Ministry of Education and Higher Education
- Sponsorship from a national organization
- Qatar Foundation need-based grant
- Qatar Foundation financial aid
- Qatar Foundation scholarship
- Carnegie Mellon University in Qatar scholarship
- FAFSA loans for U.S. citizens

Organizations that sponsored CMU-Q students

- Alfaradan Group
- Amiri Diwan
- Aspire Zone Foundation
- Embassy of the State of Kuwait
- Ministry of Education and Higher Education
- Ministry of Interior
- Qatar Airways
- Qatar Armed Forces
- Qatar National Bank
- Qatar Energy
- Sidra Medicine

Source: Carnegie Mellon University in Qatar registrar
Academics

Breakthroughs happen at the intersection of fields—a Carnegie Mellon University specialty. CMU-Q students are encouraged to learn their disciplines in depth, explore beyond their fields, and work collaboratively to tackle society’s biggest challenges.
Academics at CMU-Q

With careful attention to health and safety guidelines, students, faculty and staff returned to the classroom to learn, discuss, study and collaborate in person.

Summer Edge Program

Two thirds of the newly admitted class participated in the sixth annual Summer Edge Program. The program was created in 2016 to help prepare the incoming class for the rigor of academics at CMU-Q. Over the years, the program has evolved to better engage students and to provide them with the skills to tackle their first weeks with confidence.

“Throughout the year we are crafting and customizing the Summer Edge Program. We follow up with faculty members and students and we learn where they need support, so each class of new students will have a meaningful experience.”

Mariamma Thomas
Director, Academic Resource Center

Courses offered

Over 3 Semesters: 294 Courses Offered

Top undergraduate rankings

The computer science and information systems undergraduate programs at Carnegie Mellon were ranked first by U.S. News and World Report. Both programs are offered at the Qatar campus.

Micro courses

Micro courses offer CMU-Q students options to sample the broad range of disciplines available at Carnegie Mellon’s main campus. Taught by professors from the Pittsburgh campus, three micro courses are equivalent to one semester course.

- Introduction to product management, Bob Monroe
- Electricity markets: management and operation, Panagiotis Moutis
- User-centered research and evaluation, Raelin Musuraca
- Global water and development, Abigail Owen
- Design, brands, and futures: Service design approaches and pivots, Daphne Peters
- The TransOceanic Railway, Henry Posner
- Design, brands, and futures: Designing product and service identities, Stacie Rohrbach
- The Beatles, Stephen Shultz
- Voice leadership: Fundamentals, techniques and application for the public speaker in the professional world, Daniel Teadt
- The photo essay, Dylan Vitone
- Networks in the real world, Osman Yagan
- Design, brands, and futures: Design thinking for sustainable change, Jonathan Chapman
- Social influence, Chante Cox-Boyd
- Nudging behavior in business and public policy, John Gasper
- Storytelling in science and technology, Kevin Haworth
- Mobile application development in flutter, Larry Heimann
- Understanding the demented and delusional brain, Ken Hovis
- Introduction to information graphics, Suguru Ishizaki
- Shaping and being shaped by AI, Chinmay Kulkarni
- Digital accessibility fundamentals, Divakaran Ligimal
- Grand Challenges in AI: Past, present and future, Ganesh Mani
- Internet of Things, Michael McCarthy
CMU-Q faculty members are experts in their fields, providing individualized attention and focused instruction so that all students can reach their potential.

Faculty leadership

Selma Limam Mansar stepped into the new role of senior associate dean for faculty and research and Dudley Reynolds was appointed the new senior associate dean for education. Both Limam Mansar and Reynolds joined the CMU-Q faculty in 2007.

Number of faculty

<table>
<thead>
<tr>
<th>Field</th>
<th>Number</th>
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</thead>
<tbody>
<tr>
<td>Arts &amp; Sciences</td>
<td>24</td>
</tr>
<tr>
<td>Business Administration</td>
<td>13</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>05</td>
</tr>
<tr>
<td>Computer Science</td>
<td>10</td>
</tr>
<tr>
<td>Information Systems</td>
<td>08</td>
</tr>
</tbody>
</table>

“CMU-Q is a place where many faculty members choose to stay long term, to grow their careers and to guide and nurture the next generation of young professionals in Qatar.”

Michael Trick
Dean

Promotions

Chadi Aoun, Teaching Professor, Information Systems
Houda Bouamor, Associate Teaching Professor, Information Systems
Niraj Khare, Associate Teaching Professor, Mathematics
Giselle Reis, Associate Teaching Professor, Computer Science

Meritorious Teaching Award 2022

Patrick Walsh received the Meritorious Teaching Award at the Senior Honors ceremony for the Class of 2022.

New faculty members

Eduardo Feo Flushing, Visiting Assistant Teaching Professor, Computer Science
Ekaterini Klepousniotou, Visiting Associate Professor, Psychology
Marina Papanastassiou, Visiting Professor, International Business
Tatiana Usova, Senior Librarian, Director, Library

Retirement

John O’Brien, Associate Professor, Accounting and Experimental Economics, Former Senior Associate Dean, Faculty and Outreach
Teresa MacGregor, Director, Library
George White, Distinguished Career Professor, Entrepreneurship

Milton Cofield
1951-2022

Milton Cofield, distinguished service professor of business management, passed away unexpectedly on April 20, 2022. Cofield was dedicated to education and research, especially undergraduate teaching, throughout his career. He joined the Carnegie Mellon faculty in 2001, serving as executive director and administrative head of the Undergraduate Business Administration program. Cofield joined CMU-Q in 2017 where he taught until his death. He will be dearly missed by his colleagues and the hundreds of students he taught over the years.
Biological sciences students at CMU-Q do more than study science: they learn to follow their curiosity, explore hypotheses, and contribute in a meaningful way as young scientists and researchers.

**Biological Sciences**

**MCS Gilman Award**

Ayah Salameh was named one of two MCS Gilman Award winners for 2022. Established in 2019, the MCS Gilman Award recognizes graduating students from the Mellon College of Science (MCS) who have demonstrated exceptional commitment and growth through the MCS Core Education. Salameh is the first student from the Qatar campus to receive the award.

**Wimmer Faculty Fellowship outcome**

Mohamed Bouaouina completed his Wimmer Faculty Fellowship project, working with Eberly consultants to create new online modules for the Cell Biology course. The modules reinforce concepts from pre-requisite courses that are critical to understanding the new, more advanced course material.

**Senior Honors Theses**

- **AlReem AlKhanji**, Investigating the effect of the antioxidants lycopene and β-carotene on human breast cancer cells
- **Amna Al-Sayegh**, Efficacy of the phage tail fiber peptide as a bacterial detection tool
- **Moza Al-Shukri**, Phage lysin as a bacterial detection tool
- **Maryam Aslam**, The roles of integrin-ECM protein interactions in cell signaling, adhesion, and migration in select cancer cells
- **Laila Assami**, Assessing the role of αVβ6 integrin expression in subpopulation of PC3 cells
- **Aya Salameh**, Evaluating the role of p38 MAPK signaling pathway as a cross-link between colon tumor cells and fibroblasts

**Alumni mentors**

Several biological sciences alumni spoke to current students about their experiences after graduation. The alumni sessions were part of the first-year class EUREKA: Discovery and Its Impact, as well as the third-year class PROPEL.

**Class of 2022 Awards**

- Laila Assami, Outstanding Academic Achievement Award
- Mohammed Tareef Sayed, Qatar Campus Scholar
Business Administration

Business administration students learn quantitative decision-making, our pioneering approach to business education.

**Book chapter on COVID-19 recession**

Three students, Lojaein Galal, Daisy Ru, and Ihsane Sadiki, published a book chapter on the impact of the COVID-19 recession. Along with faculty advisor Veli Safak, the students researched how different countries recovered from past recessions, and applied their findings to the COVID-19 pandemic.

**Refinitiv Portfolio Management Competition**

Daisy Ru won the Refinitiv Portfolio Management Competition, Middle East and Africa edition. The competition, which included competitors from 17 universities in seven countries, challenged students to build a portfolio of S&P 500 companies and manage it over several weeks. Ru scored at the top of the field, edging out the second-place competitor by only a fraction of a point.

**Football analytics course**

CMU-Q and a leading global sports analytics firm, Stats Perform, delivered an online introductory course in football analytics. Open to all Education City students, the course was taught by Patrick Lucey, an alumnus from Carnegie Mellon and chief scientist at Stats Perform. Students delved into visualization and machine learning methods for analyzing spatial and granular data.

**Senior Honors Thesis**

Nour Mohamed, Is the future female? A study on educational attainment and economic development

---

**Business Administration by the Numbers**

152 Students
13 Faculty Members
75 Courses
541 Alumni

**Class of 2022 Awards**

Enas Mohamad Mohsen
Outstanding Academic Achievement Award

Fatima El-Sallabi
Qatar Campus Scholar, Andrew Carnegie Society Scholar
Computer science students learn both the theoretical foundations and practical knowledge to push the frontiers of the field and make a real-world impact.

**Invent for the Planet**

Deep Chandra and Faisal Mashhadi teamed up with Education City students to place second at the Invent for the Planet competition hosted by Texas A&M University at Qatar. The team tackled challenges that prevent small-scale fish farmers from using digital tools to optimize operations.

**Allen Newell Award**

Đorđe Popović was named a runner-up for the Allen Newell Award for Excellence in Undergraduate Research. Popović was recognized for his senior honors thesis, “FedTeams: Towards trust-based and resource-aware federated learning,” a project he completed with advisors Khaled Harras and Hend Gedawy.

**Senior Honors Theses**

Ammar Karkour, Py*: Formalization of Python’s verifiable bytecode and virtual machine in F*

Faculty advisor: Giselle Reis

Đorđe Popović, Fed Teams: Trust-based and resource-aware federated learning

Advisors: Khaled Harras and Hend Gedawy

**Qatar Collegiate Programming Competition**

CMU-Q hosted the first in-person QCPC, including teams from CMU-Q, Georgetown University in Qatar, Qatar University, and Bright Future International School.

CMU-Q teams took the top two spots, qualifying for the Arab and African regionals: the first-place team included Andrey Genze, Igliulloja and Abubakr Mohamed, and second-place team included Thang Bui, Andrei-Horia Pacurar, and Ulan Seitkaliyev. Both teams finished in the top quarter of competitors.

**Computer Science by the Numbers**

- 84 students
- 9 faculty members
- 38 courses
- 184 alumni

**Class of 2022 Awards**

Đorđe Popović

Outstanding Academic Achievement Award, Qatar Campus Scholar, Andrew Carnegie Society Scholar
Information systems students learn to design, deliver and use technology to solve problems for companies, governments and society.

Consulting project course
For the first time, the information systems consulting project course included clients who were all CMU-Q graduates: **Omar Shaath** (IS 2011) from TASMU, **Ghanim Al-Sulaiti** (IS 2012) from Qatar Computing Research Institute, **Noora Masoor** (IS 2018) from Ministry of Labour, **Omar Shamiyeh** (IS 2015) from Good Vibes, and **Maryam Al-Naemi** (IS 2018) from Ornate.

AIS Thailand chapter
**Nui Vatanasakdakul**, associate teaching professor of information systems, spearheaded the first national chapter of the Association of Information Systems (AIS) in Thailand. Vatanasakdakul is also the president-elect for the AIS Qatar chapter.

Healthcon 2022
**Muneera Al-Baker** was part of the winning team for Best Creative Idea at Healthcon 2022 in Dubai. The competition was hosted by the Gulf Health Council as part of Expo 2020.

National University of Singapore
**Chadi Aoun** shared his expertise at the National University of Singapore with a lecture on the economic antecedents and future prospects of global warming.

Stanford Global Women in Data Science
**Houda Bouamor** gave an invited talk about the challenges of dialectical Arabic processing at the Stanford Global Women in Data Science conference.

By the Numbers

- **Information Systems**: 125 Students
  - **Faculty Members**: 8
  - **Courses**: 37
  - **Alumni**: 283

Awarded

- **Fabiha Tahsin**: Outstanding Academic Achievement Award, Qatar Campus Scholar
Arts and Sciences

Students in every program learn to draw connections and work effectively outside their majors through study in the arts and sciences. Courses include required subjects such as chemistry, English, math and physics, as well as electives in a wide variety of disciplines.

Language learning and multilingualism

Dudley Reynolds co-edited a book of insights from around the world on approaching language education from an inclusive, multilingual perspective. Policy Development in TESOL and Multilingualism: Past, Present and the Way Forward, was published by Springer. The book is also edited by Kashif Raza of Qatar University and Christine Coombe of Dubai Men’s College, Higher Colleges of Technology.

Book releases

Benjamin Reilly wrote two books that were published within the academic year: Roman Fever Malaria, Transalpine Travelers and the Eternal City, and Disaster and Human History: Case Studies in Nature, Society and Catastrophe, Second Edition. Both books were published by McFarland and Company.

Majāl Undergraduate Journal

Faculty editors Kira Dreher and Jeffrey Squires, along with a student editorial team, are reviewing submissions for the first edition of the Majāl Undergraduate Journal. The concept was developed by students in a summer project course, and will publish undergraduate research, coursework, and creative expression across disciplines and modalities.

United Nations Sustainable Development Goals Education and Design Bootcamp

Jennifer Bruder was part of the team that created the United Nations Sustainable Development Goals (UN-SDGs) Education and Design Bootcamp at Hamad Bin Khalifa University. Bruder also served as a mentor at the event, where participants learned, explored, and developed educational tools to teach the UN-SDGs.

ARTS AND SCIENCES BY THE NUMBERS

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>COURSES</td>
<td>95</td>
</tr>
<tr>
<td>DISCIPLINES</td>
<td>12</td>
</tr>
</tbody>
</table>
The Academic Resource Center (ARC) provides students with the support, resources and opportunities to improve learning and succeed academically.

**Consultations with students**
The ARC provides individual and group consultations for students who have questions about their course material. There were 1,648 consultation visits in the fall semester, and 1,360 in the spring semester.

**International Tutor Training Program Certification**
The ARC’s Course Assistant Training Program received ITTPC Level 1 certification to train student tutors according to College Reading and Learning Association (CRLA) standards. To become certified, course assistants must complete 10 hours of training and 25 hours of experience working with students.

**Workshops for students**
- Mapping your semester for balance and success
- How to become a critical reader
- Write your way out of writer’s block
- How to read a math textbook
- Test-taking strategies and examining returned tests
- Forecast your QPA
- Making the most of the second half of the semester
- The art of revising your academic writing
- Strategies for virtual learning
- Get more from lectures and precepts
- Deciding what to study and how
- Crafting effective conclusions
- Overcoming procrastination
- Strategies for preparing for final exams

The CMU-Q library built bridges between knowledge and community during the post-COVID return to campus.

**New director**
Tatiana Usova joined CMU-Q as the new director of the library. Usova previously served as associate director and interim director of the library at Georgetown University in Qatar.

**Thematic book exhibitions**
To introduce the community to traditions of the region, the library featured several thematic book exhibitions, including Great Comics of the Middle East, Qatar National Day, and Ramadan.

**Diversity events**
The library held events to promote diversity and understanding, including a workshop on researching Black history and two poetry events led by local poet Sheikha Al-Khulaifi.

**International contributions**
Jasmine Kirby presented her work on collaborating with undergraduates to create library instruction materials at the 8th Sharjah International Library Conference in the United Arab Emirates. Tatiana Usova spoke on teaching data visualization at the Librarians’ Information Literacy Annual Conference (LILAC) in Manchester, United Kingdom.
Community Engagement

We have strong, living connections to the global Carnegie Mellon community, Qatar Foundation, and our strategic partners in government and industry. These collaborations offer rich learning opportunities for our students as we help build Qatar’s knowledge economy.
Collaborations with Qatar Foundation

We are an integral part of Qatar Foundation, and our students, faculty, alumni and staff work with entities across Education City to build a hub of learning, cooperation and discovery.

Stars of Science
Senior student Mohammed Al-Qassabi placed third in Stars of Science with his invention of an automatic football offside detector. Al-Qassabi was the youngest finalist, and the only one from Qatar, in the series' 13th season. An avid football player and fan, he invented the offside detector while a first-year student at CMU-Q.

U.S. Universities Arabic Debating Competition
Rahaf Abutarbush, Waad AlKhenji, Ammar Karkour and Abdullah Shaar were part of a QatarDebate contingent that competed at the U.S. Universities Arabic Debating Competition. The trip was part of the activities for the Year of Culture between the U.S. and Qatar.

Breaking the Bias
Selma Limam Mansar was part of a panel discussion on women building careers in academia. Hosted by Weill Cornell Medicine-Qatar, the event, titled 'Breaking the Bias: Stories from Academia,' featured expert speakers from several universities in Qatar.

Health advisory board
CMU-Q was an important part of the Qatar Foundation Health Advisory Board, working with the partner universities to manage community health and safety guidelines for COVID-19. This included collaborating with the QF-PHCC and QF Housing and Residence Life to ensure students were accessing the testing, vaccination and medical resources to stay healthy on campus.

Donation drive for Afghans in Qatar
CMU-Q contributed to the Qatar Foundation volunteer drive for Afghan children who were evacuated to Doha. The CMU-Q community collected donations for clothing, toys and other supplies, and coordinated two visits of community members to spend time with the children.

Product X event
Nui Vatanasakdakul was a member of the organizing committee for PRODUCT X: Innovating for Future Economies Bootcamp, an Education City multiversity initiative. Susan Hagan served as a mentor.

Education City cross-registration

<table>
<thead>
<tr>
<th>EDUCATION CITY STUDENTS ENROLLED AT CMU-Q</th>
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<tbody>
<tr>
<td>5 Academic Bridge Program</td>
</tr>
<tr>
<td>6 HBKU Computer Engineering</td>
</tr>
<tr>
<td>130 Qatar Foundation partner universities</td>
</tr>
</tbody>
</table>

47 CMU-Q students cross-registered within Education City
Our Community Partners

We are proud to have strong, collaborative relationships within the Qatar community. Each year, we strive to strengthen the connections with our strategic partners, and reach to form new partnerships.

Community Partner Lectures

In its second year, the Community Partner Lecture Series featured discussions by CMU-Q faculty members on pressing topics in business and leadership. The lecture series is open to the wider Qatar community.

- The power of business analytics, Sameer Mathur
- Decision-making in uncertain times, Agustín Indaco
- Digital economy and central bank digital currencies, Veli Safak
- Password policies in an internationally diverse environment, Ryan Riley

Security guidelines for IPv6

The Communications Regulatory Authority and CMU-Q issued Security Guidelines for Internet Protocol version 6 (IPv6) to provide support to organizations in Qatar that are implementing IPv6 in their networks. Workshops were held to train information technology professionals on securing their IPv6 networks.

Hamad Bin Jassim Center

In the four years since its creation, the Hamad Bin Jassim Center for K-12 Computer Science Education has introduced more than 25,000 students to computing, and trained nearly 200 teachers.

MindCraft reaches 11,000 students

The MindCraft program reached a milestone in the 2021-22 academic year, reaching more than 11,000 students in Qatar since the workshops began. MindCraft workshops introduce the basic concepts of programming and computational thinking.

Code in Alice summer program

Pre-college students from around the world learned the fundamentals of programming through the new program, Code in Alice. The online program brought together volunteer teachers and students from a total of 25 countries on five continents. During the month-long course, nearly 200 students aged 13 to 18 learned basic programming skills using CMU’s Alice educational software.

Alice Programming Competition

The seventh annual Alice Programming Competition for middle school and high school students featured final projects from 35 students. Teams from Al Khor International School and Al Arqam Academy took the top five spots.
We are proud to be part of the Carnegie Mellon global community, connected to the scholarship, research, spirit and culture that defines Carnegie Mellon worldwide.

Panel on AI grand challenges
A CMU panel discussion delved into the grand challenges of Artificial Intelligence (AI). The session was moderated by Ganesh Mani, adjunct faculty at the School of Computer Science on CMU’s main campus, who taught a micro course at CMU-Q. People from five continents tuned in to listen to the discussion.

The panel included:

Mercy Asiedu, Schmidt Science postdoctoral research fellow, Massachusetts Institute of Technology
Gianni Di Caro, associate teaching professor, computer science, CMU-Q
Patrick McSharry, visiting professor, CMU Africa
Francesca Rossi, IBM fellow, AI ethics global leader, AAAI president-elect
Dag Spicer, senior curator of the Computer History Museum
Beverly Woolf, research professor, College of Information and Computer Sciences, University of Massachusetts-Amherst

Global initiative
CMU-Q participated in Global, a program that brings students from CMU campuses around the world together virtually to connect and develop increased awareness and knowledge of other cultural perspectives.

Washington Semester Program
Four CMU-Q students participated in the Washington Semester Program during the academic year. Sponsored by CMU’s Institute for Politics and Strategy, students in the program spend a semester interning and taking CMU classes in Washington, DC.

Study Abroad in Costa Rica
One CMU-Q student was part of the first experiential learning program in Costa Rica, a collaboration between CMU’s Department of Modern Languages and the Monteverde Institute. Students learned about sustainability and environmental stewardship while learning Spanish and exploring the Costa Rican culture.

TCinGC Program
Two Qatar campus students travelled to Rwanda to participate in the CMU Technology Consulting in the Global Community Program. Since 2004, the program sends students into developing communities around the world to use their technical skills in a capacity-building consulting model.

Campus exchange
Diversity, Inclusion and Equity

At Carnegie Mellon University, the principles of diversity, inclusion and equity guide our values and serve as our foundation. The Qatar campus is committed to building a campus climate that embodies these principles.

Qatar elections and the role of women

CMU-Q hosted a panel discussion in advance of the first Shura Council elections in Qatar.

The panel included Her Excellency Reem Al-Mansoori, assistant undersecretary for digital society development at the Ministry of Communications and Information Technology, and Dr. Amal Mohammed Al-Malki, founding dean of the College of Humanities and Social Sciences, Hamad Bin Khalifa University. The discussion was moderated by alumna Maryam Al-Naemi (IS 2018).

UN International Day of Women and Girls in Science

CMU-Q hosted a webinar to commemorate the United Nations International Day of Women and Girls in Science. The panel discussed the role of female scientists as agents of change. The CMU-Q student club Women in STEM co-organized the webinar.

ADDvocates course

CMU-Q offered a new course for students titled ADDvocates: Anti-discrimination Dialogue for Social Justice. The multidisciplinary course delved into issues of diversity, equity and inclusion topics in Qatar and around the world, including the issues of discrimination, racism and bias.

Community Conversations

Community Conversations are held to provide a safe space for students, faculty and staff to share their experiences and perspectives. Five sessions were held on the topics of self-censorship, the Afghanistan refugee crisis, the war in Ukraine, the COVID-19 Omicron wave, and International Women’s Day.

Select workshops, initiatives and training

- ADD Advocates course
- Bias Busters
- Bias mitigation, faculty search process
- Book discussion, *Caste: Origins of our Discontent*
- Book discussion, *Invisible Women: Data Bias in a World Designed for Men*
- Community Conversations
- Diversity Dialogues
- Diversity, Equity, Inclusion and Belonging
- Karak Konnections
- Proactive Practices
- Teaching with Intention
- Title IX
Throughout their undergraduate education, we encourage our students to come together, explore their interests, and develop the skills of leadership and teamwork. Together, students create opportunities to grow as individuals, and as a community.
A Strong, Connected Community

Our campus is a unique place to study: students, alumni, faculty and staff form a close-knit, diverse community that is enthusiastic, supportive and energizing.

Qatar National Day celebration
The Qatari Student Association hosted an afternoon of activities celebrating Qatari culture, including a henna station, sword dancing, and traditional games.

Scottyville
The student community organized Scottyville, a carnival to celebrate the Tartan spirit within the pandemic guidelines. The evening included a variety of student-led games, activities and performances.

Education City sports
Sports in Education City resumed as pandemic-related restrictions began to lift. The CMU-Q cricket team won first place in the Education City-wide tournament, and the CMU-Q football team placed third.

Karak Konnections
Karak Konnections pairs members of the community together each week for a cup of coffee. The initiative encourages students, faculty and staff to make connections with people outside of their immediate circles. During the year, 97 Karak Konnections took place.

International Night
The International Night event was a student-led celebration of the cultural diversity at CMU-Q. Students in the 2021-22 academic year come from 53 countries on five continents.

Student lounge dedicated to Ilona Weyers
CMU-Q formally dedicated a space in the building to Ilona Weyers, the late wife of Dean Michael Trick. The plaque naming the space the Ilona Weyers Student Lounge is from Qatar Foundation.

Ilona was a frequent visitor on campus, attending community events large and small. She particularly enjoyed getting to know the students and the Student Affairs lounge was one of her favorite places on campus. Ilona passed away in December 2020.
Discovery and exploration are at the heart of the CMU-Q experience, and students have many opportunities to share their knowledge and talent with their peers.

New student orientation
Orientation Week for the Class of 2025 was organized by an extensive team of 59 students. The first-year students were welcomed in person for sessions in academics, student life and campus resources.

EcoCampus initiative
The EcoCampus initiative addressed participation in recycling on campus. The team surveyed community members about their knowledge of and barriers to recycling, and measured daily contamination in the building’s recycling bins. The team then led an intervention campaign to raise awareness of recycling. The data will guide EcoCampus efforts moving forward.

DC Advocates
Diversity and Climate Advocates is a student group dedicated to educating, engaging and inspiring their peers to embrace diversity, inclusion and anti-bias behavior. During the year, the group led initiatives on gender-based violence, Black History Month, identity representation and women in science.

Tartan Bridge Buddies
Tartan Bridge Buddies matches incoming students with their upperclass peers. In fall 2021, 34 upperclass students volunteered to assist new students as they began the university experience.

Undergraduate course assistants
Course assistants are an essential part of the learning team at CMU-Q. Undergraduates who have excelled in specific courses can become a course assistant in later years, working with faculty and the Academic Resource Center to support student learning. There were 50 CAs in the fall semester, and 82 in the spring semester.

Outstanding Course Assistant award
Each year, the Outstanding Course Assistant award recognizes a student who has made an exceptional contribution to student learning. This year’s award went to business administration student Ihsane Sadiki.

StuCo program
The Student-taught Courses (StuCo) program offers students the opportunity to design and deliver a unique course to their peers. Students who are selected receive training and resources, including guidance on course design, syllabus writing, and teaching. This year students delivered courses in:

- After school art
- The big leagues: Marvel vs. DC
- Comp bio scene investigation
- The evolution and impact of fashion trends in the Middle East
- Exploring sexism on the silver screen
- Injustice in the Middle East beyond Instagram
- Inside the mind of a serial killer
- Toolkit of a computational biologist
Leadership and Career Development

As students follow their interests and passions outside of the classroom, they develop critical skills and experience for their future careers. Students learn how to work in teams, organize and lead groups, present their work in a professional setting, and network with potential employers.

Arabic National Debate Championships
Rahaf Abutarbush, Ammar Karkour and Abdullah Shaar won the QatarDebate Arabic National Universities Debating Championship, with all three debaters placing in the top ten speakers of both the tournament and championship. This is the second consecutive year the team has won the Qatar national championship, and the second consecutive year that Shaar won best speaker.

CMBA fashion show
The students in the Carnegie Mellon Business Association hosted a career-wear fashion show for all students at CMU-Q.

Education City Job Fair
CMU-Q was part of the organizing committee for the Education City Job Fair. More than 500 students and 76 employers attended the two-day event. The Education City community also collaborated to produce a book of student resumes for the event, a project that started at CMU-Q.

Employer sessions
CMU-Q welcomed employers at 14 virtual and in-person events to share information and opportunities with students. Sessions included a technology-focused career networking event, as well as individual presentations by employers in Qatar.

Senior Leadership Awards
Rahaf Abutarbush
Mohammed Al-Qassabi (with distinction)
Yara Alshakhs
Mubarak Al-Sulaiti
Fatima El-Sallabi (with distinction)
Nour Mohamed
Arambha Niraula
Đorđe Popović (with distinction)
Ayah Salameh (with distinction)
We have strong, living connections to the global Carnegie Mellon community, Qatar Foundation, and our strategic partners in government and industry. These collaborations offer rich learning opportunities for our students as we help build Qatar’s knowledge economy.
CMU-Q researchers are active members of the research community in Qatar and around the world. Faculty members contribute to the engines that drive international research, including scholarly publications, professional organizations and academic conferences.

**Qatar linguistic map**
Faculty members Zeinab Ibrahim and Houda Bouamor are leading a project to explore and map the Qatari dialect. The project is funded by Qatar National Research Fund and includes principal investigators from Doha International Family Institute and Georgetown University in Qatar.

**Forum on wastewater monitoring in Qatar**
CMU-Q held a forum to discuss new ways to monitor wastewater in Qatar. The forum was a part of a CMU-Q research project funded by Qatar National Research Fund. Speakers included lead principal investigator Annette Vincent, as well as principal investigator Basem Shomar from Qatar University, Hussein Abu Halaweh from Ashghal, and CMU-Q research assistant Ramya Ramadoss.

**New seed research projects**
CMU-Q seed research funding supports long-term faculty members as they build impactful research projects for Qatar and the world.

- MERCATOR: AI-driven distributed planning and control for adaptive information gathering and data mapping using cooperative robot swarms, Gianni Di Caro
- Publishing undergraduate research: Multidisciplinary audiences, mentorship, and inclusive practice, Kira Dreher
- Antibiotic adjuvants – A synergistic study of berberine with flavonoids, Simon Faulkner
- Using data and econometrics to improve football training sessions and predict injuries, Agustín Indaco
- Citizenship lessons in educational spaces: Teaching history and civic duties to young South Asians in Qatar, Deepa Nair
- Cognition and emotions in consumer behavior, Varun Sharma
- The heuristics of affliction: Understanding suffering in premodern England, 1550-1650, Jeffrey Squires

**New international research community collaborations**
Houda Bouamor served as associate editor for ACM Transactions on Asian and Low-Resource Language Information Processing. She also was a co-organizer for the Fourth Financial Narrative Processing Workshop, the First Workshop on Natural Language Processing for Political Sciences, and she serves on the advisory board of the SIGARAB, the special interest group of the Association for Computational Linguistics for researchers in Arabic language processing.

Kira Dreher was elected to the Board of Governors for the IEEE Professional Communication Society.

Kemal Oflazer served as action editor for the Association for Computational Linguistics Rolling Review, and delivered multi-day tutorial sessions in natural language processing to Turkish Avionics Industries in Ankara.
QNRF-Funded Projects

For more than a decade, CMU-Q has been proud to contribute to the Qatar National Vision 2030 through Qatar National Research Fund’s many programs.

New faculty projects

Greenhouse-5.0: AI robotics for automated data collection, analytics, and decision support in greenhouse farming
Lead PI: Gianni Di Caro
Subaward partners:
PI: Ahmed Moustafa, Al Sulaitteen Agricultural Research, Study and Training Center
PI: Klaas Dijkstra, NHL Stenden
PI: Antonio Ferrante, Università degli Studi di Milano

Dimension-specific automated scoring of Arabic language writing proficiency
Lead PI: Tamer Elsayed, Qatar University
PI: Walid Massoud, Qatar University

Autonomous PV cleaning and inspection system for hot desert weather conditions
PI: Eduardo Feo Flushing
PI: Gianni Di Caro
Subaward partners:
Lead PI: Zhaochui Cen, HBKU
PI: Antonio Sanfilippo, HBKU
PI: Ben Figgis, HBKU
PI: Damien Cosme, TOTAL E&P Golfe Ltd
PI: Yuzhe Chen, Phoenix Contracting & Trading Co.
PI: Syed Nawaz Pasha, Phoenix Contracting & Trading Co.
PI: Nizam Uddin, Singapore Engineering & Contracting WLL
PI: Mansour Karkoub, Texas A&M University at Qatar

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Lead PI: Gianni Di Caro
Subaward partners:
PI: Anis Charfi
Subaward partner:
Lead PI: Jennifer Bruder
Subaward project: NFRP-Cluster Project Director: Evren Tok, HBKU

Resources and applications for detecting and classifying polarized and hate speech in Arabic social media
PI: Houda Bouamor
Subaward partners:
Lead PI: Tamer Elsayed, Qatar University
PI: Walid Massoud, Qatar University

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PI: Nizam Uddin, Singapore Engineering & Contracting WLL
PI: Mansour Karkoub, Texas A&M University at Qatar

Using bacteriophages as biomonitoring tools for water quality measurements
Lead PI: Ihab Younis
PI: Valentin Ilyin
Subaward partner:
PI: Basem Shomar, Qatar Environment and Energy Research Institute, HBKU

Molecular profiling of breast cancer transcriptome and splicing aberrations
Lead PI: Ihab Younis
PI: Valentin Ilyin
Subaward partner:
PI: Basem Shomar, Qatar Environment and Energy Research Institute, HBKU

Ongoing faculty projects

Sub-project 6: Assessing baseline sustainability literacy and awareness of SDGs and develop and test interventions. Part of SDG education and global citizenship in Qatar: Enhancing Qatar’s nested power in the global arena
Sub-project Lead PI: Jennifer Bruder
Subaward partner: NPRP-Cluster Project Director: Evren Tok, HBKU

Biological conversion of fuel synthesis process water to single cell protein for aquaculture feed using purple phototrophic bacteria
PI: Annette Vincent
Subaward partners:
Lead PI: Hamish Robert Mackey, HBKU
PI: Prasanna Kolakata, Qatar Biomedical Research Institute, HBKU
PI: Udeogo Onsuwogh, Qatar Shell Research and Technology Centre
PI: Xue Zhang, Institute of Hydrobiology, Chinese Academy of Sciences
PI: Haokun Liu, Institute of Hydrobiology, Chinese Academy of Sciences

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PI: Albert Liberski, HBKU
PI: Adriaan Layt, Qatar University
PI: Mabrouk Querderni, Qatar Petrochemical Company

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Using bacteriophages as biomonitoring tools for water quality measurements
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International workshop presentation

Students Laila El-Beheiry and Ammar Karkour presented their research at the 2021 Logical Frameworks and Meta-Languages: Theory and Practice (LFMTP 2021) workshop. The paper was one of only six selected for the workshop. Giselle Reis served as faculty advisor.

CEITEC research internship

Peiyun Ju, a biological sciences junior, was accepted at the Central European Institute of Technology in Czech Republic for a summer research internship in biological sciences.

Scientific Reports

Student Moza Al-Shukri was the second author on an article published in Scientific Reports titled, “Substantiation of propitious ‘Enzybiotic’ from two novel bacteriophages isolated from a wastewater treatment plant in Qatar.”

SPLASH 2021 workshop

Computer science student Samar Rahmouni received a scholarship to attend the SPLASH 2021 Programming Languages Mentoring Workshop in Chicago. The workshop encourages graduate and senior undergraduate students to pursue research in programming languages.

Summer Undergraduate Research Apprenticeship

Nine students participated in SURA 2022, a program to engage students in research after their first or second year at CMU-Q. SURA students gain practical experience and learn to define research questions, define their techniques and set out specific objectives.

Student Research

Through research projects, students develop the skills of intellectual rigor and creative problem solving that are integral to their careers and future studies.

Frontiers in Psychology

A paper on awareness and attitudes in Qatar toward threatened animal species was published in Frontiers in Psychology. Co-authors of the paper included four student researchers: Reem Al-Haddad, Sara Al-Hemaidi, Amal Al-Korbi and Almayasa Al-Naimi. The project was funded by Qatar National Research Fund's Undergraduate Research Experience Program.

Best paper, FinNLP 2021

The research of Samir Abdaljalil, a 2021 information systems graduate, received the Best Paper award at the Financial Technology and Natural Language Processing (FinNLP 2021) workshop. Under the supervision of faculty adviser Houda Bouamor, Abdaljalil conducted the research for his senior honors thesis.

“I want to nurture my students’ research skills and show them, you can spend your career working on questions that fascinate you.”

Houda Bouamor
Associate Teaching Professor, Information Systems
At Carnegie Mellon, our mission is to investigate questions that will have a real impact on the world. Each of these student researchers can answer the question, “why does your research matter?” and I think this is a hallmark of Carnegie Mellon’s approach.”

Michael Trick
Dean
our Stories

Through a variety of media channels, we share the milestones and achievements of the CMU-Q community. We believe the success stories of our students, alumni and faculty are part of the larger story of Qatar’s transformation into a knowledge-based economy. We also hope to inspire a new generation of students to imagine and deliver work that matters, both to Qatar and the world.
Public Relations

Through targeted campaigns, we reached out to the Qatar community, connected with prospective students, and raised awareness of our talented graduates with potential employers.

Traditional media

CMU-Q received a total of 1,070 mentions in traditional media last year, 86% of which were online and 14% in print. The media included local, regional and international outlets, with the highest number in Qatar, followed by Jordan and the United States.

Broadcast media

Carnegie Mellon Qatar stories were featured in nine radio news reports throughout the year, with faculty and staff experts speaking on a wide range of topics. Graduates from the Class of 2022 were featured in radio and television interviews to celebrate their achievements.

Digital channels

CMU-Q extended its digital footprint through targeted websites, including the digital Annual Report and the new alumni showcase, Work That Matters. Social media continued to drive website traffic, including targeted campaigns during the application cycle.

PUBLIC RELATIONS
BY THE NUMBERS

70
NEWS STORIES

247
ZOOM AND IN-PERSON EVENTS SUPPORTED

165,000
VISITORS TO WWW.QATAR.CMU.EDU

143
TWEETS

227
INSTAGRAM POSTS

115,000
YOUTUBE VIEWS

100,000+
ENGAGEMENTS ACROSS FACEBOOK, TWITTER, INSTAGRAM AND LINKEDIN
**July 2021**
- Largest online Meeting of the Minds goes live
- CMU-Q researchers publish first comprehensive review of minor intron splicing

**August 2021**
- Class of 2025 begins studies at CMU-Q

**September 2021**
- CMU-Q summer program teaches coding to youth around the world
- Student research wins best paper at international FinTech workshop
- Carnegie Mellon programs top the U.S. undergraduate rankings
- Most diverse student population in Carnegie Mellon Qatar campus history

**October 2021**
- Carnegie Mellon hosts discussion on Qatar elections and the role of women
- CMU-Q announces scholars for Class of 2022
- Carnegie Mellon panel: AI should augment human intelligence, not replace it
- Carnegie Mellon Qatar welcomes new faculty

**November 2021**
- Carnegie Mellon hosts Qatar Collegiate Programming Competition
- Business administration students publish book chapter on COVID-19 recession
- Students present research at international computer science workshop
- CMU-Q's Dudley Reynolds on language learning, preserving identity
- Africa's leading health tech company acquires Qatar-based startup Meddy

**December 2021**
- CMU-Q alumnæ featured at Ajyal art exhibition
- Carnegie Mellon student places top 5 at Challenge and Innovation Forum
- On UN Arabic Language Day, top CMU-Q team reflects on growth of Arabic debate
- Inside baseball: CMU-Q dean reflects on the past, present and future of operations research

**January 2022**
- Carnegie Mellon Qatar student wins MENA portfolio management competition
- CRA and Carnegie Mellon University in Qatar issue IPv6 security guidelines
- Money & Me: ‘Financial independence drives my entrepreneurial streak’
- CMU-Q grads named for 2022 Education Excellence Day Awards
- CMU-Q professor builds first AIS chapter in Thailand
- Record number of students apply for Carnegie Mellon 'Early Decision'
February 2022

Carnegie Mellon grads launch Qatar gardening app
Carnegie Mellon panel will celebrate female scientists as agents of change
Carnegie Mellon and Hamad Bin Jassim Center

March 2022

Carnegie Mellon hosts 7th annual Alice Programming Competition
Student research explores link between women’s education, economic growth
CMU-Q explores Qatari dialects, draws interactive map to preserve heritage
Carnegie Mellon student wins best creative idea at Healthcon 2022
CMU-Q startup receives grant from Bill and Melinda Gates Foundation
Carnegie Mellon Qatar celebrates Dean’s List, Fall 2021
Student lounge officially dedicated to Ilona Weyers
CMU-Q students place second at Invent for the Planet 2022

April 2022

Alumni startup raises $11 million in Series A funding
CMU-Q faculty member offers career insights at Royal Thai Embassy in Doha
Carnegie Mellon, CRA workshops provide key IPv6 security training
Seventh annual Summer Edge Program will provide new students with skills, confidence
CMU-Q alum startup receives Most Valuable Innovation Response to COVID-19 award
Class of 2022 is resilient, determined
CMU-Q deans receive ESGR Patriot Award
CMU-Q’s Waad AlKhenji: I want to do something important for my country

May 2022

Graduating students present research projects at College Honors 2022
Carnegie Mellon celebrates three graduating classes
Carnegie Mellon graduates aim to serve the community
Student research into antibiotic resistance wins Carnegie Mellon symposium
Gulf Times: Graduate combines passion for sports, technology
Gulf Times: CMU-Q’s Selma Limam Mansar speaks at Breaking the Bias
Carnegie Mellon team creates three-year computer science curriculum
Abdullah Shaar: Faculty support was key to achieving dual degrees
Entrepreneur ME on CMU-Q alumni startup Stellic
CMU-Q graduate named runner-up for School of Computer Science award
CMU-Q graduate wins MCS Gilman Award
CMU-Q students place second at Invent for the Planet 2022

June 2022

CMU-Q graduate Mubarak Al-Sulaiti: This campus is so inspiring
Carnegie Mellon’s MindCraft introduces computer science to more than 11,000 students in Qatar
CMU-Q graduate wins MCS Gilman Award
Reviving Modern Standard Arabic can unify the Arab world
our Faculty Leadership Partners
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Associate Teaching Professor, Biological Sciences
<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
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<td>Cecile Le Roux</td>
<td>Assistant Teaching Professor, Organization and Behavior</td>
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<td>Divakaran Liginlal</td>
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- Msheireb Properties
- Nakilat
- National Center for Cancer Care and Research
- Nestlė
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- Oliver Wyman
- Olympic Stars
- Omani Embassy in Doha, Qatar
- One Foods
- Ooredoo
- Oryx GTL
- Planning and Statistics Authority
- Power International Holding
- PwC
- Qatar Airways
- Qatar Armed Forces
- Qatar Biobank
- Qatar Biomedical Research Institute
- Qatar Business Incubation Center
- Qatar Cancer Society
- Qatar Central Bank
- Qatar Chemical Company Ltd (Q-Chem)
- Qatar Computing Research Institute
- Qatar Credit Bureau
- Qatar Development Bank
- Qatar Electricity & Water Co.
- QatarEnergy
- Qatar Environment and Energy Research Institute
- Qatar Fertilizer Company
- Qatar Finance and Business Academy
- Qatar Financial Center
- Qatar Financial Center Regulatory Authority
- Qatar First Bank
- Qatar Foundation
- Qatar Fuel (WOQOD)
- Qatar Investment Authority
- Qatar Mobility Innovation Center
- Qatar Museums
- Qatar National Bank
- Qatar National Research Fund
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- Qatar Petrochemical Company (QAPCO)
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For more than a century, Carnegie Mellon University has challenged the curious and passionate to imagine and deliver work that matters. A private, top-ranked and global university, Carnegie Mellon sets its own course with programs that inspire creativity and collaboration.

In 2004, Carnegie Mellon and Qatar Foundation began a partnership to deliver select programs that will contribute to the long-term development of Qatar. Today, Carnegie Mellon Qatar offers undergraduate programs in biological sciences, business administration, computer science, and information systems.

Graduates from CMU-Q are pursuing their careers in top organizations within Qatar and around the world, and many have started their own entrepreneurial ventures. With 15 graduating classes, the total number of alumni is more than 1,100.