Carnegie Mellon University Qatar

Qatar Foundation

Carnegie Mellon University Qatar

Annual Report 2019-2020

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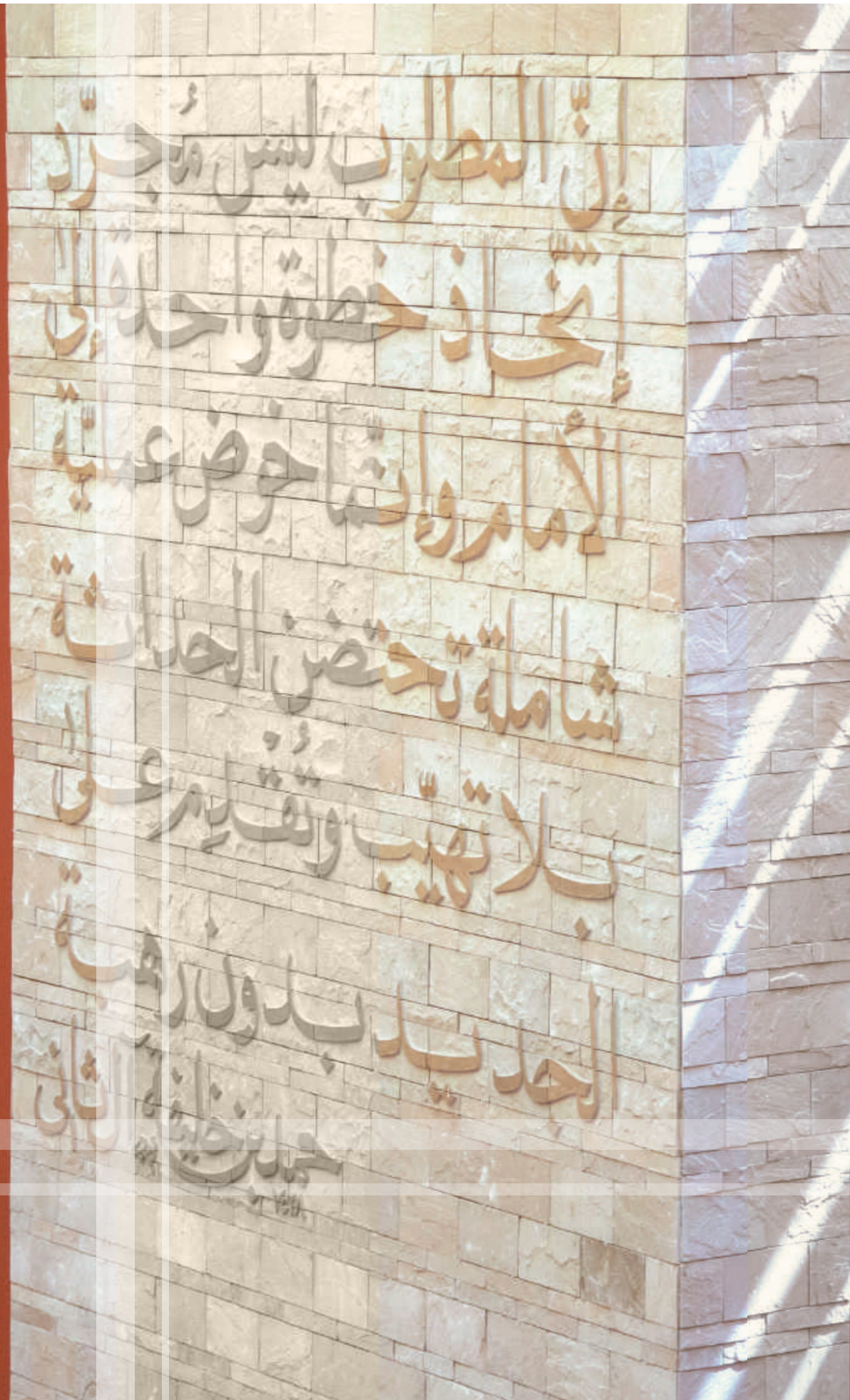Phone: +974 4454 8400

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Carnegie
Mellon
University
Qatar

Annual Report
2019-2020

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Acknowledgments

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 15 years, 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.

Contents

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.

Sixteen years after it was first established, Carnegie Mellon University in Qatar continues to stand as a global beacon of educational opportunity.

Today, the role of CMU-Q is more important than it ever has been as a result of humanity's response to the COVID-19 pandemic. The world is currently seeking solutions to the challenges that we face in areas such as health care, education, policy and science. In these uncertain times, I am confident that CMU-Q students and faculty will help build a brighter tomorrow.

While the past year has certainly been unique, I am proud of the way the CMU-Q community came together to persevere and thrive. Thanks to these collaborative efforts, 86 outstanding students graduated as part of the Class of 2020, bringing the total number of CMU-Q alumni to 935 Tartans.

A focus on innovative learning has always defined CMU-Q, and this year is no different. Not only did we shift 125 CMU-Q courses to remote learning in only two days, we also introduced 15 new micro courses. Taught by professors from our main campus, they covered topics that typically lie outside CMU-Q offerings, including artificial intelligence and society, blockchain, and computational medicine.

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.

It has been a year unlike any other, and this Annual Report details many accomplishments in which we can all take pride. I invite you to explore its pages as we look ahead to what the next year will bring.

Farnam Jahanian
President, Carnegie Mellon University

From the President

From
the Dean

Welcome to the Carnegie Mellon University in Qatar
Annual Report 2019-2020.

I have been a faculty member at Carnegie Mellon University for 30 years, and the dean of the Qatar campus since 2017. Over the decades, I have seen how higher education adapts as the times change, and how technology has challenged many of the ways we deliver a university education.

These challenges dwarf in comparison to the COVID-19 pandemic. I know that the pandemic has touched every person on the planet in ways both big and small, and those of us in higher education are no exception. My deep gratitude goes out to those on the frontlines, and my heart goes out to all those who were afflicted or lost someone to the disease.

The CMU-Q *Annual Report 2019-2020* is the story of how our community contributed to an academic year full of academic innovation, accomplishment and enthusiasm. There is much to celebrate, and I encourage you to learn more about our achievements this year.

This report is also the story of how our small community faced a challenge that comes along once in a century, and how we united around a single goal: to provide a quality education for our students. And our students have likewise risen to the challenge. I am exceptionally proud of their creativity and determination.

As we reflect on the academic year of 2019-2020, it is clear that we are resilient because of our connections. We have risen to the challenges of the pandemic because of hundreds of dedicated and resourceful people: our faculty, students, staff, alumni, Qatar Foundation partners, Education City colleagues, the CMU faculty, staff and leadership, and our supportive partners in Qatar's academic, government and industry sectors. Thank you.

Michael Trick
Dean, Carnegie Mellon University in Qatar

Our Alumni

Since our first class graduated in 2008, nearly 1000 men and women have completed their undergraduate education at Carnegie Mellon University in Qatar. As they build their careers, we follow their successes, connect them to one another, and encourage them to mentor the next generation of CMU-Q students.

Class of 2020

86 graduates

5 academic programs

19 nationalities

47% Qatari citizens

The 86 graduates in CMU-Q's Class of 2020 were scheduled to cross the stage at a formal ceremony, but the pandemic's social distancing restrictions called for a creative solution. Instead, CMU-Q honored the class at a series of virtual events, which included a senior celebration and the formal conferral of degrees for Carnegie Mellon graduates worldwide.

" **Right from our orientation we were present and ready to take adventures on. Today, we are present with each other, despite the circumstances. I'm excited to see a world where our presence contributes to positive change.** "

Dona Ferdinando
Student Speaker
Biological Sciences | Class of 2020

Graduates by program

Biological Sciences
17

Business Administration
36

Computational Biology
01

Computer Science
16

Information Systems
16

" **I have watched these 86 graduates grow into accomplished and confident young professionals. While the pandemic may change how we celebrate, it cannot dampen our enthusiasm, or how proud we are of their accomplishments.** "

Michael Trick

Outstanding Academic Achievement Awards
- **Maha Al-Tamimi** (Biological Sciences)
- **Fahad Salah Bahzad** (Business Administration)
- **Raghid Bsat** (Computational Biology)
- **Mohammed Nurul Hoque** (Computer Science)
- **Hassan Nadeem** (Information Systems)

Andrew Carnegie Society Scholars
- **Muhammad Nahin Khan**
- **Fatima Mustafawi**

Qatar Campus Scholars
- **Fahad Salah Bahzad**
- **Raghid Bsat**
- **Mohammed Nurul Hoque**
- **Muhammad Nahin Khan**
- **Fatima Mustafawi**

The Global Alumni Network

13
graduating classes

935
alumni

Alumni live on
5
continents

55
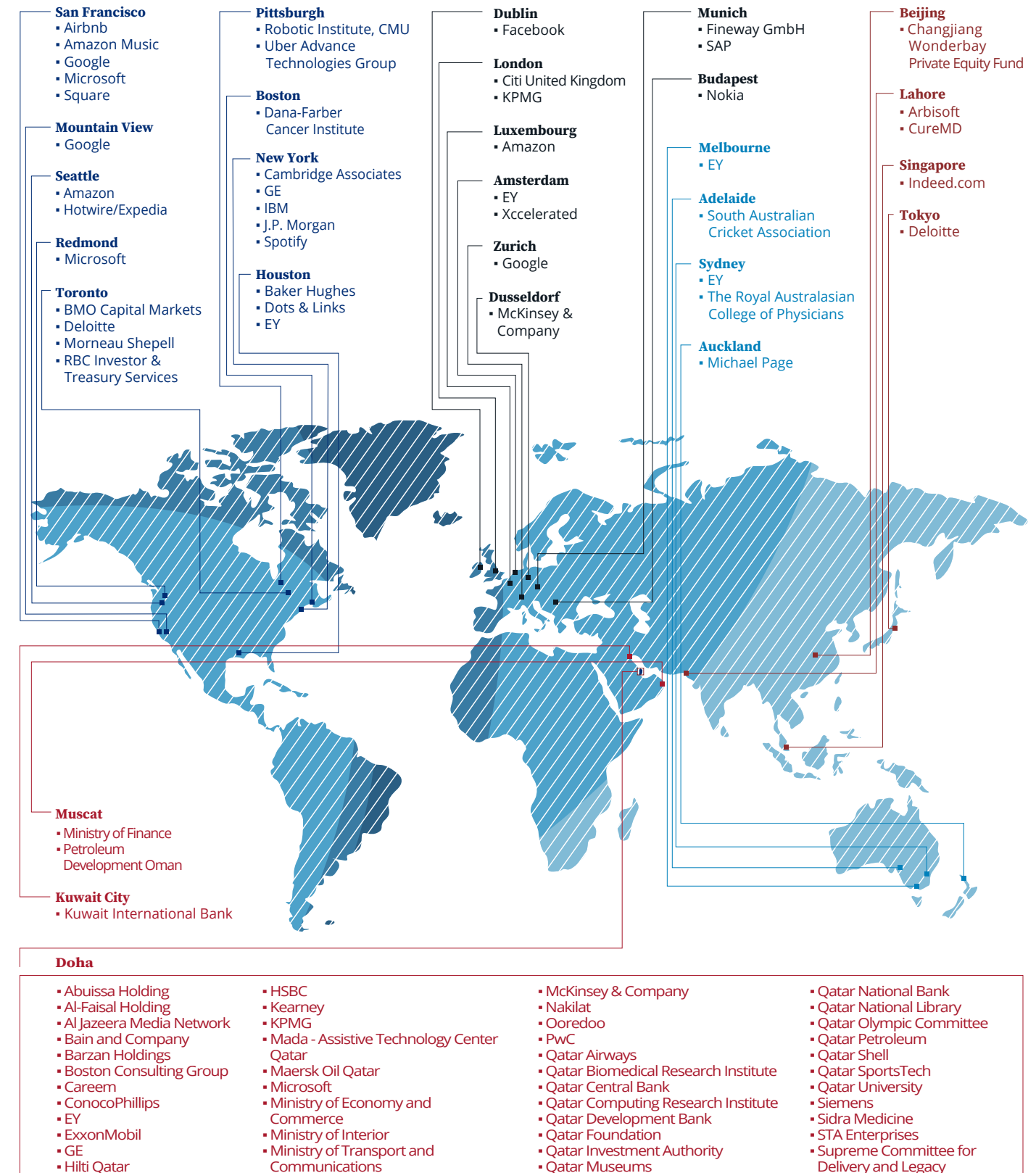nationalities

IDEAS THAT SHAPE YOUR WORLD START HERE

Our graduates are integral members of their communities, both within Qatar and across the globe. Alumni members are professionals, leaders and innovators who apply the skills they learned at Carnegie Mellon to shape the world around them.

Most CMU-Q alumni **live and work in Qatar**

Alumni are working at top international organizations

San Francisco
- Airbnb
- Amazon Music
- Google
- Microsoft
- Square

Mountain View
- Google

Seattle
- Amazon
- Hotwire/Expedia

Redmond
- Microsoft

Toronto
- BMO Capital Markets
- Deloitte
- Morneau Shepell
- RBC Investor & Treasury Services

Pittsburgh
- Robotic Institute, CMU
- Uber Advance Technologies Group

Boston
- Dana-Farber Cancer Institute

New York
- Cambridge Associates
- GE
- IBM
- J.P. Morgan
- Spotify

Houston
- Baker Hughes
- Dots & Links
- EY

Dublin
- Facebook

London
- Citi United Kingdom
- KPMG

Luxembourg
- Amazon

Amsterdam
- EY
- Xccelerated

Zurich
- Google

Dusseldorf
- McKinsey & Company

Munich
- Fineway GmbH
- SAP

Budapest
- Nokia

Melbourne
- EY

Adelaide
- South Australian Cricket Association

Sydney
- EY
- The Royal Australasian College of Physicians

Auckland
- Michael Page

Beijing
- Changjiang Wonderbay Private Equity Fund

Lahore
- Arbisoft
- CureMD

Singapore
- Indeed.com

Tokyo
- Deloitte

Muscat
- Ministry of Finance
- Petroleum Development Oman

Kuwait City
- Kuwait International Bank

Doha
- Abuissa Holding
- Al-Faisal Holding
- Al Jazeera Media Network
- Bain and Company
- Barzan Holdings
- Boston Consulting Group
- Careem
- ConocoPhillips
- EY
- ExxonMobil
- GE
- Hilti Qatar
- HSBC
- Kearney
- KPMG
- Mada - Assistive Technology Center Qatar
- Maersk Oil Qatar
- Microsoft
- Ministry of Economy and Commerce
- Ministry of Interior
- Ministry of Transport and Communications
- McKinsey & Company
- Nakilat
- Ooredoo
- PwC
- Qatar Airways
- Qatar Biomedical Research Institute
- Qatar Central Bank
- Qatar Computing Research Institute
- Qatar Development Bank
- Qatar Foundation
- Qatar Investment Authority
- Qatar Museums
- Qatar National Bank
- Qatar National Library
- Qatar Olympic Committee
- Qatar Petroleum
- Qatar Shell
- Qatar SportsTech
- Qatar University
- Siemens
- Sidra Medicine
- STA Enterprises
- Supreme Committee for Delivery and Legacy

A Year of Accomplishments

The first graduating class at CMU-Q was in 2008, and each year our alumni network grows in both numbers and achievements. In the last year, here are just a few of our alumni accomplishments.

Series A funding

A startup that began as a student project raised $2.5 million in Series A funding. **Haris Aghadi** (Information Systems 2014) and **Abdulla Al-Khenji** (Information Systems 2015) launched the physician booking platform, Meddy, in 2016. In response to COVID-19, they added tele-health services that include video medical consults and a symptom checker.

Made in Qatar hand sanitizers

Mohammed Al-Matwi (Business Administration 2015) started the first perfume factory in Qatar in 2017, earning him the silver medal for Best Startup at the 2019 Reyada Awards. In response to COVID-19, Al-Matwi shifted his business focus to personal disinfectants—including hand sanitizers—for the Qatar market.
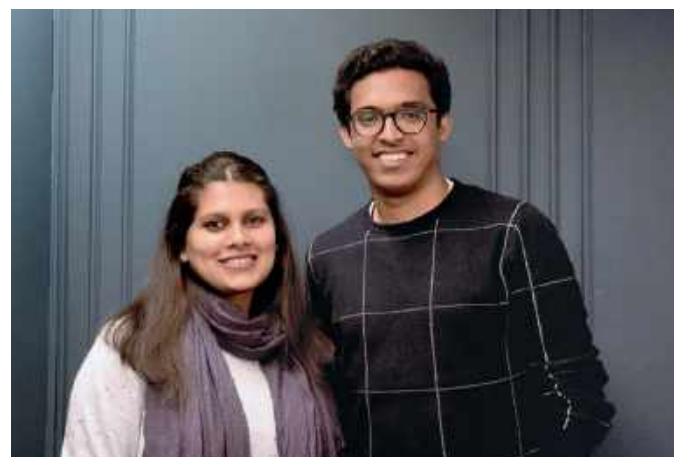
Forbes Magazine "30 under 30"

Sabih Bin Wasi (Computer Science 2015) and **Rukhsar Neyaz** (Computer Science 2015) were selected for the North American *Forbes* "30 under 30" list. They, along with **Jiyda Moussa** (Information Systems 2015) and **Musab Popatia** (Computer Science 2016), have created Stellic, an academic planning tech startup.

"20 women on the move in 2020"

Entrepreneurs **Maryam Al-Naemi** (Information Systems 2018) and **Min Kyung Kang** (Biological Sciences 2017) were selected for the "20 women on the move in 2020" list for Doha Learning Days. The list was compiled by WISE to recognize influential women in Qatar.

DFI's Short of the Week

Doha Film Institute (DFI) launched its new Short of the Week screening series with "Al-Johara," a film by **Nora Al-Subai** (Computer Science 2008). The film has been screened at the Ajyal Youth Film Festival, the Sarajevo Film Festival, and Festival de Cannes.

ISCRAM Best Paper

Umair Qazi (Information Systems 2018) and his fellow researchers were awarded Best Paper by the Information Systems for Crisis Response and Management (ISCRAM) Association. The study, which began as Qazi's senior honors thesis, analyzed the usefulness of social media images to rapidly assess damage during a disaster.

Qatar Film Competition

Abdulrahman Alfayad (Computer Science 2018) created the first Qatar 48-Hour Film Challenge. More than 200 film enthusiasts tackled the task of creating a five-minute film over 48 hours.

First place, Girls Can Innovate, QITCOM 2019

Roda Al-Hor (Information Systems 2017) was part of the winning team of female innovators in the Girls Can Innovate competition at the 2019 Qatar IT Conference and Exhibition (QITCOM). Her team created a one-stop shop app for abayas and branded clothing.
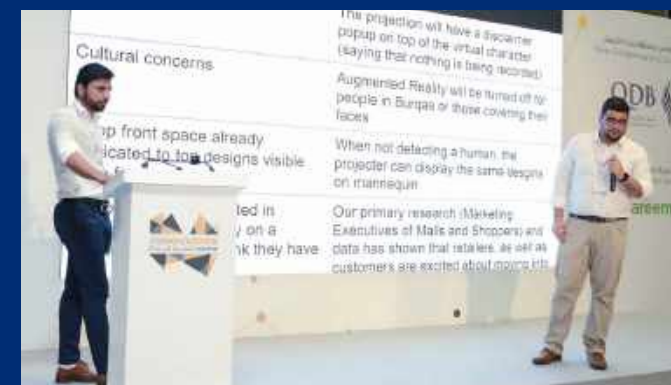
IdeaCamp 2019

Yasir Khan and **Abdul Wasay** (both Information Systems 2018) took first place in IdeaCamp 2019, a Digital Incubation Center program and part of the Ministry of Transport and Communications. More than 250 teams applied for the IdeaCamp program, which included training, mentoring and rehearsal sessions over several months.

Class of 2019
One Year Later

عبدالرحمن يوسف

In May 2019, 78 young men and women completed their undergraduate degrees at CMU-Q and began their careers. In the year since they graduated, the members of the Class of 2019 have made significant strides in a myriad of fields.

Platinum Education Excellence Award

Aisha Fakhroo (Biological Sciences 2019), received a platinum medal from **His Highness the Amir Sheikh Tamim Bin Hamad Al Thani** at the 13th annual Education Excellence Award ceremony.

Best Demo Paper, Honorary Mention

Shaden Shaar (Computer Science 2019) co-authored a paper on a system to analyze propaganda techniques in the news. The paper received honorary mention by the Association for Computational Linguistics.

Employment status one year after graduation

Employed
63

Not in market
01

Graduate school
07

Still seeking
07

Global opportunity

Although majoring in business administration, **Haris Syed** was also interested in technology. At CMU-Q, he built an impressive interdisciplinary resume and after graduation, he was recruited for EY's robotics process automation division in Houston.

> "I felt very prepared when I joined EY. During our one-week training program with the best of the best from different universities in the US, I felt I could step through the door and do whatever they do."

Interdisciplinary career path

As a computer science student, **Zeina Darwiche** planned to pursue programming after graduation. Instead, she stepped into the business realm and joined KPMG Qatar to consult on digital innovation projects.

> "Aside from our knowledge, the character of a CMU graduate is important. The people at KPMG appreciate how we try to ask the right questions and broaden our perspective."

Graduate studies

With a degree in biological sciences, **Khalid Al-Naemi** has decided to pursue graduate studies at McGill University. Bolstered by a prestigious scholarship from Qatar University (QU), he will study genetic mycology, and eventually return to Qatar to teach and research at QU.

> "I'm at the tip of the iceberg and it's a very deep discipline that I am still learning. But I have my CMU work ethic, and the drive and motivation to inspire future students to pursue science."

Non-profit organization

As a student, **Al-Dana Al-Mohannadi** was drawn to the human side of information systems, such as how technology can improve the quality of life for people with disabilities. She joined Mada Center after graduation as an ICT accessibility researcher.

> "I never wanted a corporate job, I wanted to find ways I could help people. CMU-Q helped me with the confidence to take on a position like this."

Networking and Mentorship

For our students, graduation is just the beginning of a new relationship with CMU-Q. Our alumni remain closely connected to us, keeping us up-to-date with their personal milestones and career successes. Throughout the year, they return to CMU-Q to network with and mentor a new generation of students.

> At CMU, we are asking a fundamental question: How do we prepare the next generation for a future of work that is always changing?

Farnam Jahanian
President, Carnegie Mellon University
Qatar alumni reception
November 2019

Special reception with President Jahanian
At a special reception for CMU-Q alumni, **Farnam Jahanian** outlined his vision for re-imagining the student experience. The reception was also an opportunity for alumni to network with local business leaders, Carnegie Mellon leadership and faculty members from CMU-Q.

CarnegieApps Hackathon mentors
At the eighth edition of CMU-Q's CarnegieApps Hackathon, 10 alumni returned to mentor the teams during the intense, 24-hour competition. Most of the alumni mentors themselves participated in CarnegieApps Hackathon while they were students.

Dinner with Twelve Tartans
Our alumni returned to campus to share their experiences and encourage our students as they begin their careers. The annual Dinner with Twelve Tartans also included a speed networking segment to introduce newer students to the graduates.

Munich alumni gathering
Carnegie Mellon alumni from both the Qatar and Pittsburgh campuses gathered in Munich to meet and network with current CMU-Q students. The students were exploring the booming innovation entrepreneurship and tech sector in Munich.

Tartan Talks
Tartan Talks is an opportunity for current students to learn about life after graduation from alumni from each academic program. This year, CMU-Q hosted three Tartan Talk events.

> I developed friendships here that I think will last a lifetime. I have this network now, which consists of people, honestly, all over the world.

Zaid Haque
Information Systems 2012
Senior Program Manager, Microsoft

Milestone class reunions
In January, graduates celebrating milestone class reunions reconnected with one another, as well as faculty and staff, at an event hosted by **Michael Trick.** Graduates from the classes of 2018, 2014, and 2009 were marking their one-, five-, and ten-year reunions, respectively.

Career networking
CMU-Q alumni frequently return to campus for networking events like Careers Platform, Professional Services Career Day and information sessions. Representing their employers, these alumni share their work experiences, guide students and provide information about internships and employment.

Tarnival alumni tent
The annual CMU-Q Tartan carnival is a favorite event for alumni, who return to network with one another and reconnect with the university. There were 85 alumni who attended Tarnival 2019.

Our Students

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.

Events for Pre-College Students

Each year, we introduce nearly 2,000 high school students to Carnegie Mellon University in Qatar. A slate of workshops, competitions and learning programs inspire curiosity and exploration in the fields of business, science and technology.

Experience CMU-Q

Experience CMU-Q is a one-day workshop to explore study and career options in different CMU-Q programs. Nearly 250 students attended the October and January sessions.

Summer College Preview Program

A total of 72 students participated in SCPP 2019, an intensive three-week program that introduces high school students to the programs offered at CMU-Q.

> " When I attended SCPP in 2012, it gave me a sense of direction and made me realize that what I wanted more than anything was to become a Tartan. "
>
> **Maryam Al Naemi**
> Class of 2018
> Keynote speaker | SCPP 2019 closing ceremony

Pi Day Mathematics Competition

The fifth annual math contest drew 126 teams from across Qatar. The top four teams were from the American School of Doha, Doha British School, and two from DPS Modern Indian School.

Botball

The Lebanese School of Qatar came first in a field of 17 teams at the 16th Botball competition. The annual contest challenges students to program a robot to maneuver through a game board of obstacles and challenges. Doha Secondary School came in second place.
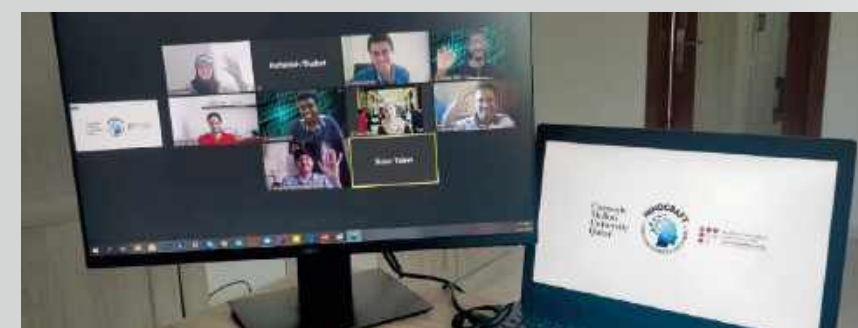
Mindcraft Virtual

Three months after the pandemic started, CMU-Q launched its first virtual outreach program. Mindcraft Virtual is an online reimagining of the popular Mindcraft workshop that introduces students to the concepts of computer science.

The Admission Process

Class of 2023

113 first-year students	**35** Qatari students	**42** international students	**21** first-years admitted under Early Decision

SHAPE YOUR WORLD START HERE

For each applicant to Carnegie Mellon, we look at more than grades: we consider the whole student. Through this careful process, we select an incoming class of curious and motivated students who will support and challenge one another.

" Allow me to reassure each one of you, we selected you because you have talent, work ethic, creativity and drive, and we believe you will thrive at CMU-Q. "

Michael Trick
Convocation | Class of 2023

Recruitment for the Class of 2024

With application numbers up by 42%, the admission process for the Class of 2024 was exceptionally selective. We participated in Education City visits to more than 40 schools in the country and took part in Discover Education City, a two-day collaborative event.

Our admission team also travels as part of the Education City roadshow to meet with prospective students and share with them the unique experience of studying in Qatar.

Early Decision

CMU-Q admitted 21 students for Early Decision, the largest group since the university began the process in 2016. More than half were Qatari nationals, with a total of eight nations represented.

" Today's world needs solutions for problems that are not confined to only one field of study. "

Layal Al-Alami
Class of 2013
Commercial Project Manager, Siemens
Keynote speaker | Early Decision Dinner

Qatar Foundation Grant Program for new CMU-Q students

Qatar Foundation introduced a need-based grant program for CMU-Q students of all nationalities entering the Class of 2023. Grants of up to the full cost of attendance were offered, based on financial circumstances. The grant program was extended for the Class of 2024, and will support a diverse and competitive student body.

Marhaba Tartans

Nearly 150 newly admitted students and their families logged in to a virtual welcome session to meet the faculty, staff, students and graduates of the university.

Our Student Community

Student body composition

410
students
enrolled

48
nationalities

41%
Qatari

60%
female

CMU-Q students come from diverse backgrounds, with a wide spectrum of interests and aspirations. Together, they form a community of enthusiastic learners.

Enrolled students, by program

Source: Carnegie Mellon University in Qatar registrar

- Computational Biology
- Biological Sciences
- Information Systems
- Computer Science
- Business Administration

AFGHANISTAN
ALBANIA
ALGERIA
AUSTRALIA
BAHRAIN
BANGLADESH
CANADA
CHINA
EGYPT
ESWATINI

ETHIOPIA
FRANCE
GEORGIA
INDIA
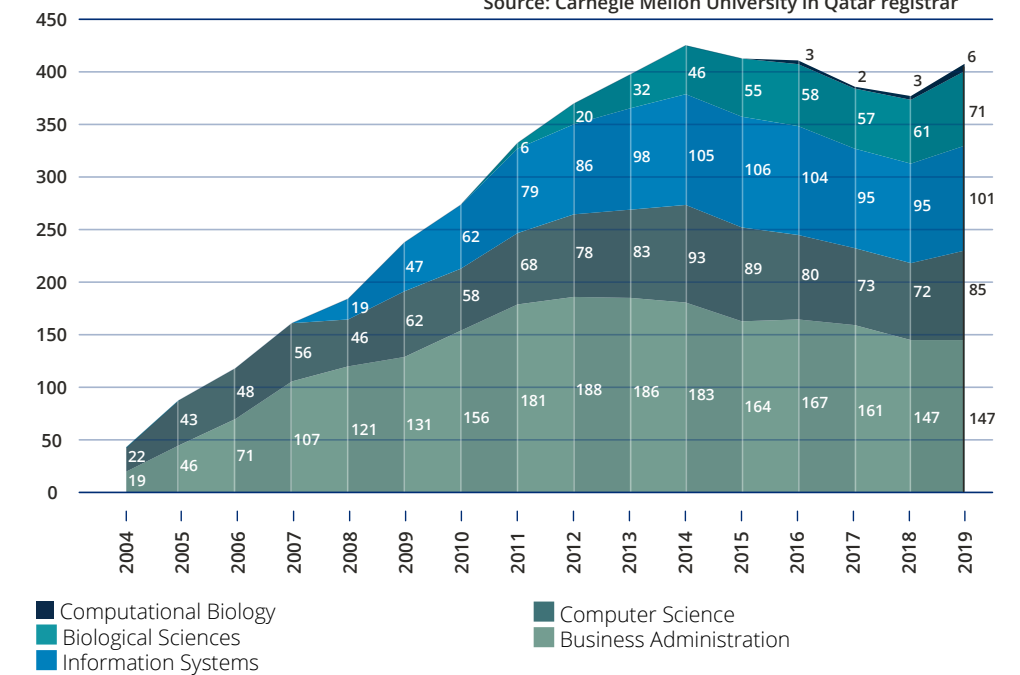INDONESIA
IRAN
IRAQ
JAPAN
JORDAN
KAZAKHSTAN

KENYA
KOREA
KUWAIT
LEBANON
LESOTHO
MOLDOVA
MONGOLIA
MOROCCO
NEPAL
OMAN

PAKISTAN
PALESTINE
PHILIPPINES
QATAR
ROMANIA
RUSSIA
RWANDA
SAUDI ARABIA
SERBIA
SRI LANKA

SAINT KITTS AND NEVIS
SUDAN
SYRIA
TANZANIA
TUNISIA
UNITED KINGDOM
UNITED STATES OF AMERICA
UZBEKISTAN

Financial Aid

Financial aid options are a vital component of a diverse, competitive and strong CMU-Q student community. In 2019-2020, 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

- Amiri Diwan
- Aspire Zone Foundation
- Embassy of the State of Kuwait
- Ministry of Administrative Development, Labour and Social Affairs
- Ministry of Education and Higher Education
- Ministry of Interior
- Qatar Airways
- Qatar Armed Forces
- Qatar Chemical Company
- Qatar Foundation
- Qatar National Bank
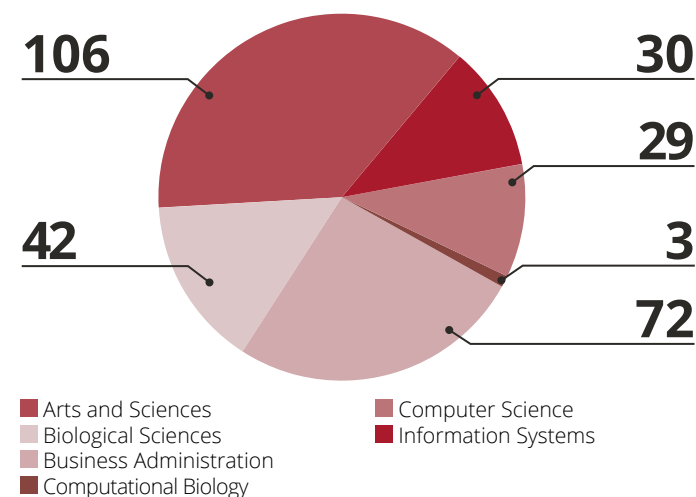- Qatar Petroleum
- Sidra Medicine
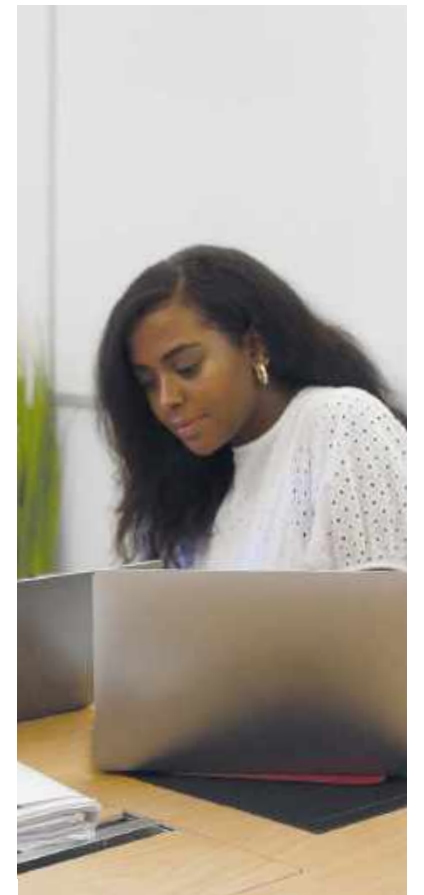
Academics

For decades, Carnegie Mellon has been at the forefront of educational science, and this history was crucial when the challenges of the pandemic arose. A strong collaboration of CMU-Q experts in technology, education and subject areas ensured that students continued to learn and grow, even in exceptional circumstances.

Academics at CMU-Q

5
undergraduate programs

282
courses offered over 3 semesters

125
spring courses moved to remote mode in March

At Carnegie Mellon, we begin with a broad introduction to the liberal arts and sciences during the first semesters. Students then focus on major core classes in the middle semesters, and they deepen and broaden their scope in the last semesters through advanced electives.

Courses offered

106
30
29
42
3
72

■ Arts and Sciences
■ Biological Sciences
■ Business Administration
■ Computational Biology
■ Computer Science
■ Information Systems

Minors were offered in 15 different subjects

- Arabic Studies
- Biological Sciences
- Business Administration
- Cognitive Neuroscience
- Computational Biology
- Computer Science
- Economics
- English
- Global Systems and Management
- History
- Information Systems
- Mathematical Sciences
- Neuroscience
- Professional Writing
- Psychology

Education during a pandemic

The COVID-19 pandemic spurred a swift move to remote delivery halfway through the spring semester. CMU-Q completed the full transition within two days of the official directive by the Qatar government.

Initially, the focus was to replace in-person lectures and maintain the continuity of learning objectives. A task force of CMU-Q technology and educational experts guided the move of 125 courses to virtual delivery.

As the university adjusted, faculty members worked closely with CMU's Eberly Center for Teaching Excellence and Educational Innovation to ensure students would have an exceptional learning experience.

" The faculty and the programs will be stronger having gone through this. Our faculty members have had to think carefully about what goes in their courses and how they all fit together. "

Michael Trick

" I miss CMU, but apart from that, online classes are perfect. We can talk to professors and friends face to face, ask questions and get feedback. "

Muhammad Ali Raza
Class of 2023

Our Faculty

CMU-Q faculty members are experts in their fields and dedicated to undergraduate education. Faculty members provide individualized attention and focused instruction so that all students can reach their potential.

New faculty members

- **Kira Dreher,** assistant teaching professor, English
- **Simon Faulkner,** assistant teaching professor, chemistry
- **Agustín Indaco,** assistant teaching professor, economics
- **Jasmine Kirby,** instruction and engagement librarian
- **Ezzohra Moufid,** lecturer, French studies
- **Deepa Nair,** assistant teaching professor, history
- **Veli Safak,** assistant teaching professor, economics
- **Varun Sharma,** assistant teaching professor, marketing
- **Jeff Squires,** assistant teaching professor, English
- **Patrick Walsh,** assistant teaching professor, philosophy

Faculty members, by program

Arts and Sciences
26

Biological Sciences
05

Business Administration
12

Computer Science
09

Information Systems
09

Promotions

- **Mohamed Bouaouina**, associate teaching professor. biological sciences
- **Ihab Younis**, associate teaching professor, biological sciences

Meritorious Teaching Awards

In a campus first, CMU-Q selected two faculty members to receive the 2019-2020 Meritorious Teaching Award. **Lauren Burakowski** and **Nui Vatanasakdakul** were recognized for going beyond expectations to contribute to student learning.

Micro courses

The Qatar campus offered an extensive slate of micro courses throughout the academic year, first in hybrid format and then in remote mode to comply with pandemic restrictions. Taught by professors from main campus, micro courses offer CMU-Q students a sampling of the myriad areas of study at CMU. Three micro courses are equivalent to one semester course.

Micro courses for 2019-2020

- Basics of cryptocurrencies, blockchains, and applications, **Nicolas Christin**
- Basics of food science, **Gloria Silva**
- Bilingualism, **Erik Thiessen**
- Biology for life, special topics, **Daniel Brasier**
- Blockchains in industry, **Divakaran Liginlal**
- Business acting, **Geoffrey Hitch**
- Impacts of AI: AI and ethics, **David Danks**
- Impacts of AI: AI and society, **Molly Steenson**
- Impacts of AI: AI and intelligence, **Simon DeDeo**
- Information graphics, **Suguru Ishizaki**
- Introduction to computational medicine, **Christopher Langmead**
- Introduction to environmental ideas, **Abigail Owen**
- Making short films, **Dylan Vitone**
- Product and service innovation, **Peter Boatwright**
- Text mining in practice, **Carolyn Rose**

> " One of the real benefits is the very constrained nature of a micro course. It's a very focused, intense experience for the students, but it's an opportunity to dive deeply, quickly into a subject. "
>
> **David Danks**
> Head, Department of Philosophy
> L.L. Thurstone Professor of Philosophy and Psychology
> Carnegie Mellon University

Biological Sciences

42
biological sciences courses

71
students

77
alumni

Biological sciences students at CMU-Q study the Mellon College of Science curriculum that emphasizes problem-solving, communication, and analytical skills. Students learn to follow their curiosity, explore hypotheses, and contribute in a meaningful way as young scientists and researchers.

Fifth year scholar

Nahin Khan, who completed his degree in biological sciences in 2020, was selected for the Carnegie Mellon Fifth Year Scholar Program. Based at the main campus, the program provides a small number of exceptional students the opportunity to take an extra year to enhance their undergraduate education.

Elizabeth W. Jones Award

Dona Ferdinando, a 2020 biological sciences graduate, was awarded the Elizabeth W. Jones Award for Excellence in Undergraduate Research in Experimental or Computational Biology. The award was given by the Department of Biological Sciences at Carnegie Mellon's home campus in Pittsburgh.

Precision medicine symposium

Ihab Younis spoke at the first symposium for genomics in clinical practice in Qatar. This collaboration between HBKU's College of Health and Life Sciences and the Qatar Council for Health Practitioners brought together geneticists, researchers, technicians and health care professionals to share perspectives on precision medicine.

> " CMU changed my passion and my future goals entirely, and helped me choose the field I have pursued in my master's and PhD studies. "
>
> **Safa Salim**
> Biological Sciences 2017
> PhD student, Biological and Biomedical Sciences, HBKU

Student summer research

SRI

Six CMU-Q students were selected for Summer Research Institute 2019: **Vincent Adiong, Ayah Al-Ansari, Laila Assami, Mahnoor Fatima, Thamanna Muhammed Hashir** and **Ayah Salameh**. SRI is an immersive molecular biology and biochemistry research experience at the Mellon College of Science in Pittsburgh.

QBRI

CMU-Q students **Fajer Al-Marzooqi, Noora Al-Mohannadi** and **Zenab Siddig** were selected for the fifth annual Summer Research Program at Qatar Biomedical Research Institute, which provided intensive laboratory experience in the areas of diabetes, neurological diseases, and cancer.

SPRINT

Two rising seniors were selected for the first Summer Program for Research and Internship, a 10-week research opportunity at a lab outside of CMU-Q. **Ayşe Haruka Açıkbaş** worked in the Ettensohn Lab for Developmental Regulatory Genomics at CMU's main campus, while **Weilin Li** went to the Central European Institute of Technology (CEITEC) in Brno, Czech Republic.

Business Administration

72
business administration courses

147
students

469
alumni

Business administration students at CMU-Q learn quantitative decision-making, our pioneering approach to undergraduate business education. With an emphasis on analytics and leadership development, students are prepared for the challenges of the global business landscape.

McKinsey Case Competition

The student-led Carnegie Consulting Club organized the McKinsey Case Competition, the first consulting competition of its kind in the region. Six teams competed, including participants from Qatar University and Texas A&M University at Qatar. The CMU-Q team of **Mohammad Shahmeer Ahmad, Mariyam Amir, Omar Naim, Faiha Sahirah** and **Muhammad Ahmed Zahid** ultimately won.

> " Carnegie Mellon is not just an education, it's a full experience. As a BA grad, you have all of these different aspects that you can shape into your career in the corporate world. "
>
> **Asma Al-Kuwari**
> Business Administration 2011
> Head of Digital Experience/Digital Content Services
> Qatar National Library

Thought leadership during a pandemic

Qatar Stock Exchange webinars

The Qatar Stock Exchange invited CMU-Q faculty members **Fuad Farooqi**, **Agustín Indaco** and **John O'Brien** to lead webinar sessions on portfolio diversification and how behavioral biases affect investors. More than 100 members of the community joined each webinar.

Hack COVID-19

George White spearheaded CMU-Q's participation in Hack COVID-19, a competition to develop ideas for tackling pandemic-related challenges. **Gordon Rule**, **Annette Vincent** and **Mohammad Hammoud** contributed their expertise during the four-day event. Hack COVID-19 was a Qatar Business Incubation Center initiative with sponsorship from Qatar Development Bank.

Productive and balanced remote teams

Cecile le Roux penned two articles for the local community on building happy, productive remote teams and balancing blended roles.

Saving the economy from the coronavirus

Agustín Indaco analyzed measures that different governments enacted in the wake of the COVID-19 pandemic, and offered recommendations for a swift economic recovery.

Teaching and learning in online mode

Serkan Akgüç shared a professor's perspective of online learning at a webinar organized by the U.S. Embassy in Qatar for students who were beginning their studies in the United States.

Doha Debates

Business administration student **Joud Ghalayini** was a panel member for the inaugural #DearWorld Live, a new initiative by Qatar Foundation's Doha Debates. The interactive livestream series is a venue for experts and young leaders to discuss the issues that face a post-pandemic world.

Computer Science

29 computer science courses	**85** students	**153** alumni	**Computational Biology**	
			6 students	**3** alumni

Computer science students at CMU-Q are studying the world-class curriculum of Carnegie Mellon's School of Computer Science, learning both the theoretical foundations and the practical knowledge to push the frontiers of the field and make a real-world impact.

> **Coming to CMU-Q was a dream come true. I've always been obsessed with computers and technology, and here I was able to feed my passion.**
>
> **Talal Al-Haddad**
> Computer Science 2013
> Graduate student, Artificial Intelligence, Warsaw University of Technology

Robotics Institute Summer Scholar program

Maimoon Siddiqui was selected for RISS, an intensive summer research program at Carnegie Mellon where she assisted on applications of computer vision to sense facial expressions.

First prize, QCRI project

Zaryab Shahzaib secured first prize for his project on graph theory for predicting flight faults during Qatar Computing Research Institute's 2019 summer internship program.

First place, Oman programming competition

A CMU-Q student team won the top prize at the Oman Collegiate Programming Contest (OCPC). **Mohammed Nurul Hoque, Muhammad Ahmad Khan** and **Zaryab Shahzaib** placed first among the nearly 30 teams who competed. A second CMU-Q team, which included **Keivin Isufaj, Swapnendu Sanyal** and **Omar Sinan,** placed fourth.

Second place, Qatar Sports Tech Hackathon

Keivin Isufaj placed second at the Qatar Sports Tech Hackathon, along with **Johanne Medina** and **Mohamed Amara,** both students in the Hamad Bin Khalifa University computer engineering program. The team created an app to improve the fan experience during World Cup 2022.

Google Hash Code hub in Qatar

For the third consecutive year, CMU-Q hosted the only Google Hash Code hub in Qatar. The programming competition is open to teams around the world. This year, the CMU-Q hub hosted eight teams, including two from Qatar University.

First place, Capture the Flag

Mohammed Yusuf Ansari, Mohammed Nurul Hoque, Akhyar Kamili and **Muhammad Ahmad Khan** took first place in the Capture the Flag cyber challenge featured during Qatar University's Cyber Week.

Third graduate in computational biology

Raghid Bsat became the third student in the history of the Qatar campus to graduate with a degree in computational biology. Following the School of Computer Science curriculum, the interdisciplinary program includes core coursework in computer science, biology, science and mathematics.

> **I chose CMU-Q because it was one of the few universities with a computational biology program. I didn't realize that I would study both computer science and biology on such a deep level.**
>
> **Raghid Bsat**
> Computational Biology 2020

Information Systems

30
information systems courses

101
students

223
alumni

GIS Technology Day 2019, Special Award
Chadi Aoun received a special award for his presentation, "GIS for emergent challenges: Empowering future information systems leaders," at the 2019 GIS Technology Day, hosted by the Center for Geographic Information Systems in Qatar.

> " The most important things I carry from CMU are the skills of working smart, putting the right effort in the right place, and time management. "
>
> **Omar Shaath**
> Information Systems 2011
> Project Specialist
> Ministry of Transport and Communications

Carnegie Mellon announced a new information systems curriculum, offered as a joint program from the Dietrich College of Humanities and Social Sciences and the Heinz College of Information Systems and Public Policy. The new curriculum equips students to lead change at the interfaces of technology, organizations and society.

Doha Oasis for Innovation
Information systems sophomore **Mohammed Al-Qassabi** was awarded the gold medal in the individual category at the Doha Oasis for Innovation. Al-Qassabi designed a prototype that helps soccer referees detect offside players during matches.

Nursing Informatics Symposium
Anis Charfi moderated the panel on cybersecurity in health care at Hamad Medical Corporation's third annual Nursing Informatics Symposium.

Tech startup winners
Students in the tech startup course presented their final projects to a judging panel from AbuIssa Holdings, E-Butler, Ooredoo, and Qatar Science and Technology Park (QSTP). The top team, which included **Yasmin Abdelaal, Zainab Akhtar** and **Aya El-Sakka**, won a spot in the QSTP XLR8 program.

Social commerce entrepreneurship
Information Systems junior **Reem Al-Haddad** created an Instagram khanfaroosh bakery as part of a fall 2019 course in e-commerce. When the course ended, she transformed the class project into a busy social commerce business, @BakedByReem.

President, AIS
Nui Vatanasakdakul was elected president of the Association of Information Systems, Qatar Chapter. Her term runs until 2022.
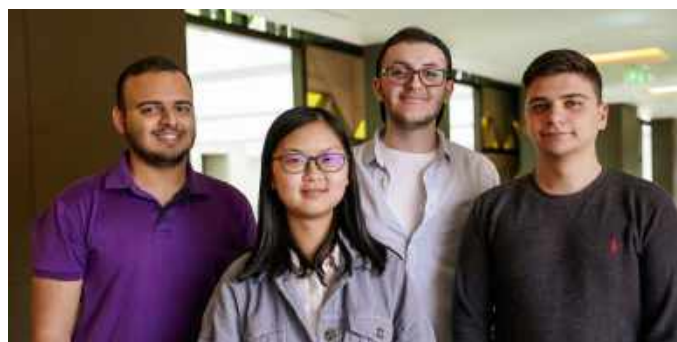
Arts and Sciences

26
faculty members

72
courses offered in 13 disciplines

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

Top spots, QU Math Competition

At the Qatar University Math Competition, first-year student **Igli Mlloja** placed first in the men's category, with **Keivin Isufaj** and **Fangjiao Xu** placing second in the men's and women's categories, respectively. **Swapnendu Sanyal** rounded out the men's top three. **Niraj Khare** served as faculty advisor.

WISE report on language policy

Dudley Reynolds shared the findings of his research report, Language Policy in Globalized Contexts, at the WISE Summit 2019. The report, which was prepared in collaboration with WISE, calls on education systems around the world to examine how they support their communities' language resources.

QU Math Day

Hasan Dermirkoparan delivered a presentation at Qatar University's Math Day on the impact of the Pi Day Mathematics Competition on high school students in Qatar. Demirkoparan and **Zelealem Yilma** created the competition in 2016.

CMU-Q Library

The library is an essential resource for both study and research. Housing a large collection of print volumes, databases, e-journals and ebooks, the library also coordinates textbooks for all courses at CMU-Q.

When the CMU-Q building closed due to the pandemic, the library shifted to online mode, ensuring students and researchers had continued access to textbooks and information through digital sources.

Gloriana St. Clair Lecture Series on 21st Century Librarianship

CMU-Q hosted **Megan Lotts,** the art librarian from Rutgers University, for a lecture on fostering a culture of creativity and play in libraries. Lotts also delivered workshops at both CMU-Q and the Qatar National Library.

PR Xchange Award

The CMU-Q library won the PR Xchange Award from the Library Leadership and Management Association. Library director **Teresa MacGregor**, along with CMU's **Jill Chisnell** and **Heidi Wiren Bartlett**, created the winning campaign to raise awareness of the many research databases available from the University Libraries.

Farewell to Lansiné Kaba

Historian **Lansiné Kaba** retired after spending more than a decade teaching at CMU-Q. The author of several books on African and Muslim history, Kaba joined the faculty of the Qatar campus in 2009 and was named the Thomas M. Kerr Distinguished Career Professor of History in 2017.

Interdisciplinary Collaboration

Students and faculty members at CMU-Q are encouraged to reach beyond traditional program boundaries to solve problems. Interdisciplinary projects and classes encourage creativity, innovative problem solving and teamwork.

The Arts in Qatar

Jennifer Bruder, Zelealem Yilma and **Benjamin Reilly** created a new interdisciplinary course that examines the arts in Qatar. Students explored Qatari literature, film, and art exhibits as a springboard for learning more about how cultural institutions reflect Qatari identity.

iGEM Bronze Achievement

A student team created a fast, inexpensive method to test for carriers of genetic diseases like sickle cell anemia and cystic fibrosis. The team presented the kit at the 2019 International Genetically Engineered Machines (iGEM) competition held in Boston, where they were recognized with a Bronze Achievement award.

The project brought together biological sciences students **Dona Ferdinando**, **Dania Kaddoura**, **Muhammad Nahin Khan**, **Weilin Li**, and **Reema Subeh**, computer science students **Đorđe Popović**, **Radu Revutchi**, **Rameez Saiyid** and **Omar Sinan**, and information systems students **Jinan Azem** and **Andrew Edward**.

Creative video contest winner

Reem Al-Haddad, a junior in the Information Systems Program, created two original videos for a Snapchat contest for best creative video hosted by social media influencer **Mohammad Al-Dosari**. The two videos tied for first place in the contest.

Rhetoric, Science and the Public Sphere

Kira Dreher redesigned a course where students investigate how science is communicated in the public sphere. The course was offered for the first time in the spring semester, which provided students with the extraordinary opportunity to examine in real time how science is used to frame public health decisions with respect to the pandemic.

Statistical Consulting Center

Taeyong Park and **Daniel Phelps** created the Statistical Consulting Center to offer support to CMU-Q faculty, staff and students from all disciplines on research design, psychometrics and statistical modeling and analysis.
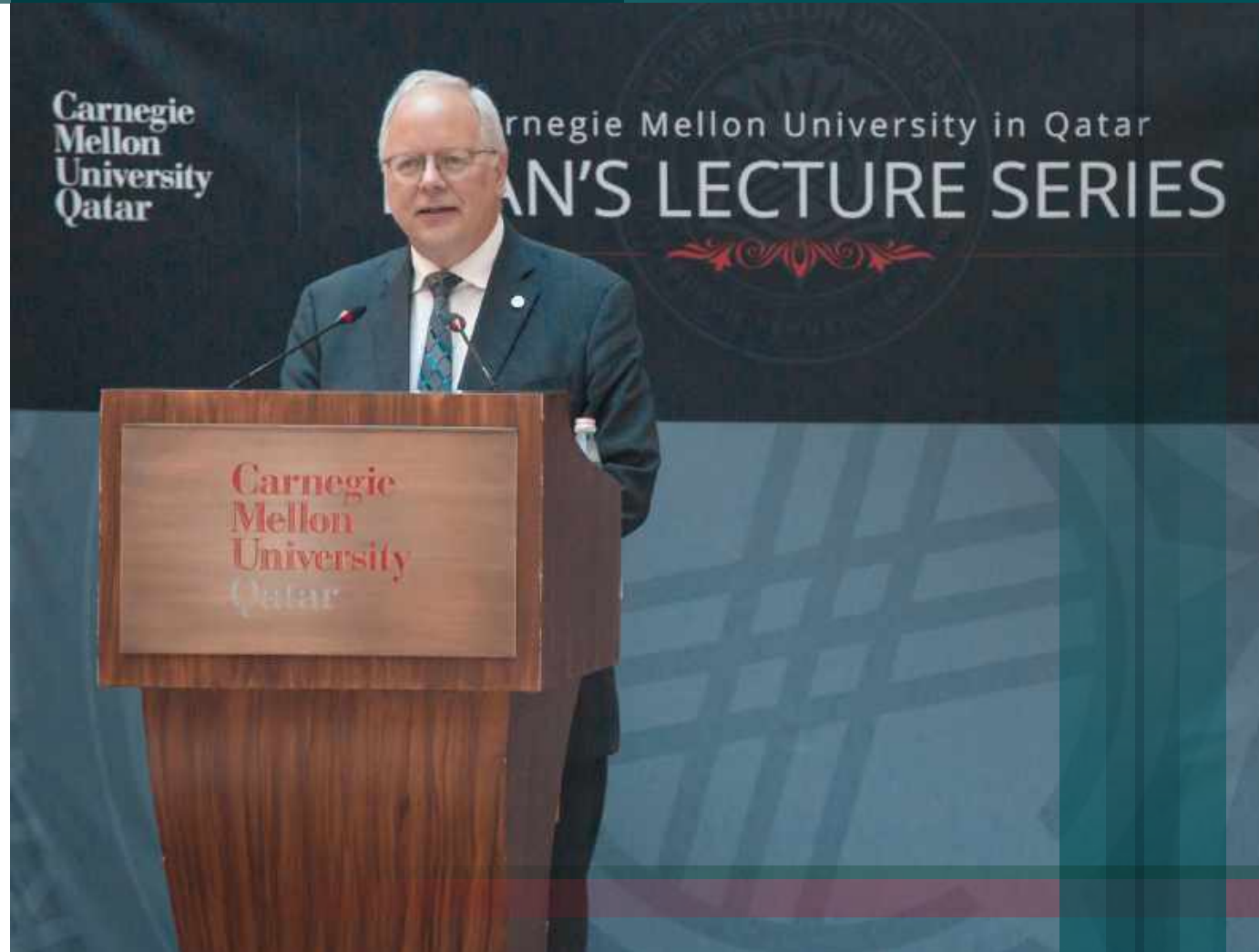
Community Engagement

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.

The Dean's Lecture Series

58
Dean's Lectures
since 2011

One of our central roles as a university is to serve as a knowledge hub for the community, initiating the discussions that move society forward.

" **Education City is an open space for learning and discovery, and we want the community to come and experience it.** "

Michael Trick

His Excellency Sheikh Abdulla Bin Saoud Al-Thani

**Governor,
Qatar Central Bank**

Qatar's strategy for fintech

His Excellency Ali bin Ahmed Al Kuwari

Minister of Commerce and Industry, State of Qatar

The role of the private sector in Qatar's economic and industrial development

Sheikha Hanadi Nasser Al Thani

Founder, Chairperson and CEO, Amwal

Empowering women in business and entrepreneurship

Kamel Abdallah

Group Chief Executive Officer, Baladna Food Industries

Managing sustainability in national food security programs

Mary Ellen Weber

Veteran astronaut, NASA

Leadership, governance and decisions: Lessons from space

Our Strategic 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 out to form new partnerships.

Community Partner Workshops
- Leadership coaching for engagement and performance
- Cyber resilience in the digital transformation age
- Mastering corporate innovation and corporate entrepreneurship
- Perspectives on entrepreneurship: Innovation-driven enterprises and startup valuation techniques
- Social engineering prevention: Helping employees and customers not be phished

Memoranda of Understanding
- beIN MEDIA GROUP
- Mada - Assistive Technology Center Qatar
- Qatar Biomedical Research Institute

Qatar IPv6 Taskforce
CMU-Q is part of the IPv6 Taskforce, appointed by the Communications Regulatory Authority to guide the adoption of IPv6 in Qatar. CMU-Q and Qatar University prepared the plan to upgrade the government network, and CMU-Q's **Khalid Warraich** presented the IPv6 deployment update at QITCOM 2019.

Hamad Bin Jassim Center for K-12 Computer Science Education
In 2017, CMU-Q and Jassim and Hamad Bin Jassim Charitable Foundation joined forces to create the Hamad bin Jassim Center for K-12 Computer Science Education. The center's goal is to introduce school-aged children in Qatar to concepts and career paths in computer science.

Mindcraft and Mindcraft Virtual
Taking place more than a dozen times each academic year, Mindcraft one-day workshops have introduced more than 5,000 students in Qatar to computer science. In the wake of the COVID-19 pandemic, the team created Mindcraft Virtual to engage students remotely.

Alice Middle East
Alice educational software was originally developed at CMU and adapted for Qatar with support from the Qatar National Research Fund. In partnership with the Ministry of Education and Higher Education, Alice Middle East is now part of the information communication technology curriculum at Qatar government schools.

In 2019-2020, the Computing Hub provided teaching training for the Alice computing curriculum to roughly 120 middle school teachers. Nearly 5,000 students have benefited from the program to date.

At the annual Alice Middle East Programming Competition, more than 100 students presented digital animations and games, with two teams from Al Khor International School taking first place. Abulssa Holdings generously provided the prizes for the competition.

Computing Hub
The Computing Hub is a new initiative to inspire interest and curiosity in computer science in K-12 students in Qatar. Targeting both students and educators, the Computing Hub provides a central place for learning, exploring, creating and collaborating in the area of computer science. Alice Middle East is an essential part of the Computing Hub.

> "Computing skills are fundamental for children who will spend their careers in a knowledge economy. We encourage all young people in Qatar to explore the world of programming and computing."
>
> **Saeed Al-Hajri**
> Board Member and CEO
> Jassim and Hamad Bin Jassim
> Charitable Foundation

Collaborations with Qatar Foundation

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

Park and Plant
CMU-Q celebrated Sustainability Week by participating in the Park and Plant Initiative. Members of the CMU-Q community helped plant 109 trees around the building as part of QF's multi-phase plan to restore Qatar's rich indigenous landscape.

I AM QF
CMU-Q showcased two student-led projects at the Qatar Foundation community event, I AM QF: the interdisciplinary research team, iGEM, and the CarnegieApps Hackathon team.

Darb Al Saai
To celebrate Qatar National Day, CMU-Q created an interactive activity for football fans to explore the analytics of their favorite teams at Darb Al Saai. Researchers built the sports analytics activity using Q-Smartlab, a visual dashboard for big data that was created by CMU-Q as a teaching tool for studying financial markets.

Rimads startup
Mohammad Hammoud launched a technology startup, Rimads, at Qatar Science and Technology Park (QSTP). Rimads is building an end-to-end, AI-based medical ecosystem that aims to transform the health care experience.

Qatar Green Building Council
Chadi Aoun was part of a Qatar Green Building Council webinar to discuss how the COVID-19 pandemic will affect climate change. Aoun is an expert in sustainability and smart cities.

Awareness walk
CMU-Q was a co-organizer of the Breast Cancer and Domestic Violence Awareness Walk along with QF Community Development, Qatar University, the QF partner universities, QF Protection and Social Rehabilitation Center (AMAN) and Sidra Medicine.

Doha Debates
Doha Debates, in partnership with UNESCO, hosted a panel discussion at CMU-Q titled, "Can technology be used to make peace."

Health and Wellness Fair
Education City students, faculty and staff explored Qatar's resources for well-being at the annual Health and Wellness Fair, held at CMU-Q. The event, which featured 34 organizations that cover different aspects of health and wellness, is organized collaboratively by CMU-Q, the partner universities and Qatar Foundation.

QF Partners in Education

17
Academic Bridge Program students enrolled at CMU-Q

12
HBKU Computer Engineering students enrolled at CMU-Q

As an educational institution, we are in a unique position to influence and help develop the ways that people learn in Qatar. Through targeted programs, CMU-Q is enhancing learning opportunities in key areas.

Doha Learning Days

CMU-Q's **Jennifer Bruder, Faten El Ayache** and **Dudley Reynolds** were invited to present workshops at Doha Learning Days. The learning festival was held as part of Qatar Foundation's WISE Summit 2019.

CMU-Q students to Education City universities

43

Education City students to CMU-Q

65

Visit to CMU main campus

Vice chairperson and CEO of Qatar Foundation **Her Excellency Sheikha Hind Bint Hamad Al Thani** visited CMU's main campus in Pittsburgh, where she participated in a roundtable discussion on artificial intelligence and toured academic centers focused on entrepreneurship, innovation, and teaching excellence.

Pre-University Education

Annette Vincent was appointed to the board of advisors for Qatar Academy for Science and Technology (QAST). **Cecile le Roux** was appointed to the board of advisors for Academyati.

Qatar Faculty Forum

At the Qatar Faculty Forum, **Taeyong Park** discussed his statistical research into fear, information seeking, and the vote, and **Teresa MacGregor** presented her research on the impact of training on e-textbook platform preference.

Renad Academy

Students in **Jennifer Bruder**'s class on autism visited Qatar Foundation's Renad Academy to gain a deeper understanding of autism in elementary school-aged children.

World Mathematics Team Championships

Zelealem Yilma coached a team of high school students from several Qatar Foundation schools for the World Mathematics Team Championship in South Korea. Two of the team members achieved special honors.

Carnegie Mellon Connections

17
CMU-Q students spent fall 2019 in Pittsburgh

15
Carnegie Mellon professors delivered CMU-Q micro courses

Wimmer Faculty Fellow

Nesrine Affara was named one of six Wimmer Faculty Fellows for the 2020-21 academic year. Wimmer fellowships are offered by CMU's Eberly Center for Teaching Excellence and Educational Innovation to encourage junior faculty members to explore the way they teach.

Finalists, CMU Teaching Innovation Award

Silvia Pessoa, Maria Pia Gomez-Laich, Cecile le Roux, Divakaran Liginlal and **Thomas Mitchell** developed a process for improving student writing in information systems, organizational behavior and history.

Chadi Aoun and **Gordon Rule** created an innovative approach to the PROPEL class.

Washington Semester Program

Aisha Al-Ali, Abraham Farooqui, Naram Hajjar and **Auguste Piromalli** became the first students from the Qatar campus to participate in the Washington Semester Program, offered by CMU's Institute for Politics and Strategy.

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.

A. Nico Habermann Distinguished Lecture

Srinivasan Seshan spoke to CMU-Q about the past, present and future of delivering multimedia on the internet. Seshan is the department head for CMU's Computer Science Department, and the Joseph F. Traub Professor.

Distinguished lectures in computer science are named in honor of **A. Nico Habermann**, head of the Computer Science Department at Carnegie Mellon University from 1980 to 1988 and founding dean of the School of Computer Science.

President's visit

Farnam Jahanian, the president of Carnegie Mellon University, visited the Qatar campus to meet with alumni, students, faculty and staff. At a special reception for alumni and community leaders, he outlined his vision for reimagining the student experience both within and beyond the classroom. While in Qatar, President Jahanian also met with **His Excellency Sheikh Dr. Khalid Bin Thani Bin Abdullah Al Thani**, chairman of Ezdan Holding Group.

John Patrick Crecine Distinguished Lecture

Jeff Gill spoke to CMU-Q on the present and future of data science. Gill is a distinguished professor in the Department of Government and a professor in the Department of Mathematics and Statistics at American University.

Distinguished lectures in arts and sciences are named in honor of **John Patrick Crecine**, dean of the College of Humanities and Social Sciences at Carnegie Mellon University from 1976 to 1983.

Student Experience

Our students go through a transformation over the four years of their undergraduate education. We encourage them to come together as a community of learners, explore their interests, and develop the skills they will need in their careers.
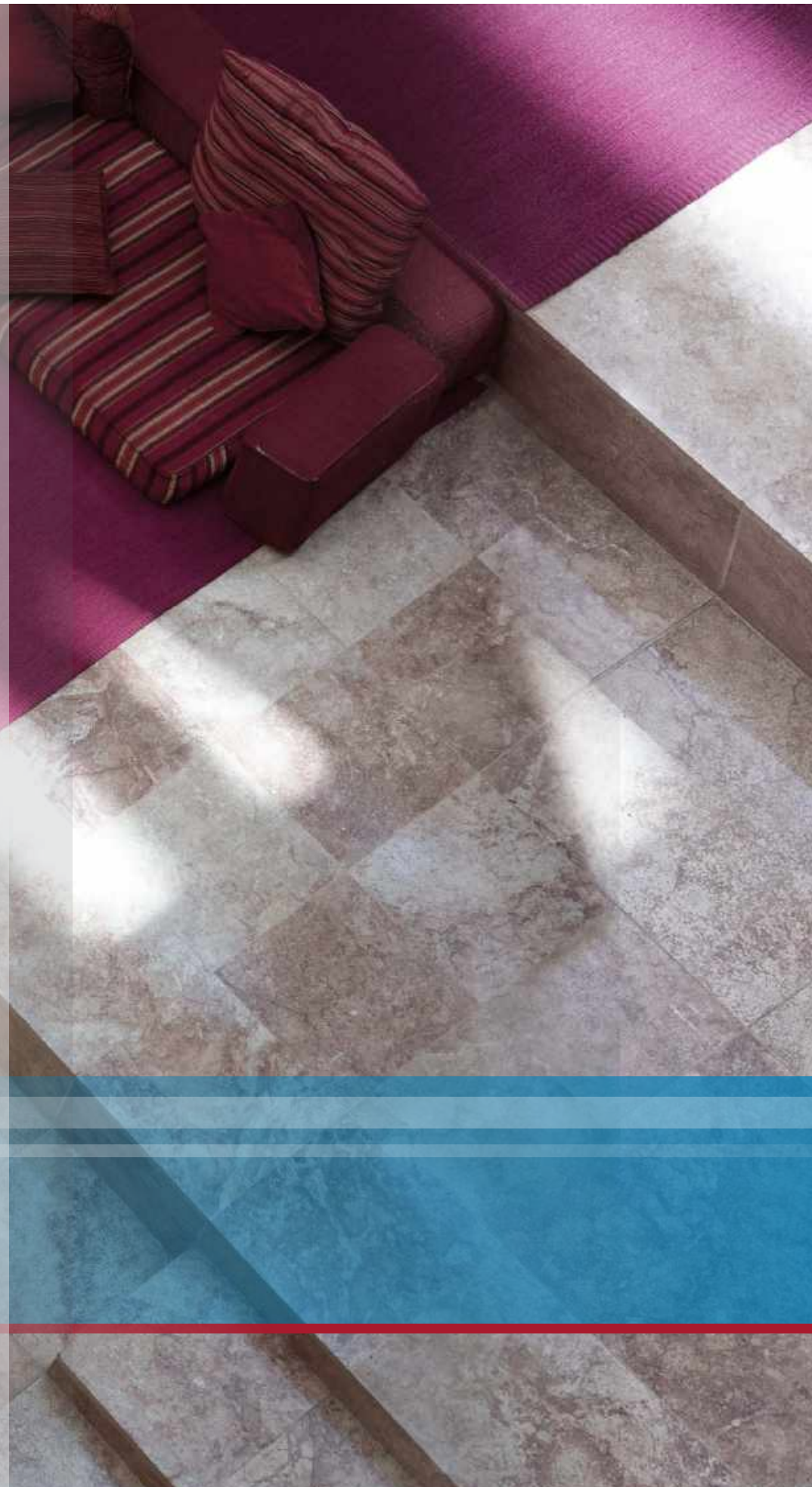
A Strong, Connected Community

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

New student orientation

In August 2019, CMU-Q welcomed the new class for a four-day orientation experience to introduce first-year students to the campus, and to one another. Orientation is organized by a team of current CMU-Q students and includes an intensive introduction to the resources, expectations, and academic areas at CMU-Q.

Tarnival

Carnegie Mellon's Tartan carnival, better known as Tarnival, took place on the Education City Green Spine in October. A long-standing tradition at CMU-Q, Tarnival brings together students, faculty, alumni and staff for an evening of fun, games and prizes.

Thanksgiving lunch

CMU-Q celebrated Thanksgiving together at a lunch for students, staff and faculty. The November holiday is a tradition in the U.S. and an opportunity to express gratitude, kindness and the joy of community.

Hackathon 2020

The interdisciplinary team of **Maryam Al-Darwish, Haya Al-Kaabi, Haya Al-Kuwari** and **Buthayna Almulla** took the top prize at the 2020 Hackathon competition. There were 19 teams at the eighth edition of the student-led competition, including innovators from CMU-Q, College of the North Atlantic – Qatar, Qatar University and Texas A&M University at Qatar.

> We felt that these initiatives were important so that our international students, who were residing in the dorms, felt supported and connected with their CMU-Q community.
>
> **Atorina Benjamin**
> Psychologist
> CMU-Q Student Affairs

Pandemic food pantry

As Education City made the shift to remote learning, CMU-Q put important supports in place for international students. CMU-Q assigned a Student Affairs staff member to each international student, and provided regular care packages. CMU-Q also stocked a food pantry in each dorm, which was available to all Education City international students.

Art Club exhibition

Co-founders of the Art Club, **Khulood Al-Haroon** and **Noora Al-Shukri**, organized a two-week exhibition of CMU-Q artwork at the Qatar Foundation Student Center. The exhibition included paintings, poetry and photographs submitted by members of the CMU-Q community, including students from all majors.

Peer-to-Peer Learning

10
StuCos

96
undergraduate
course assistants

34
nominations for
Outstanding Course
Assistant

At CMU-Q, learning continues beyond the classroom. Discovery and exploration is at the heart of the CMU-Q experience, and students have many opportunities to share their knowledge, skills and talent with their peers.

Peer Health Advocates

Peer Health Advocates (PHA) is a peer-to-peer organization that increases awareness of health and wellness in the CMU-Q community. Through events and awareness campaigns, PHA students promote an open exchange of information and ideas, while developing leadership and communication skills.

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 96 course assistants during the fall and spring academic sessions.

Language Bridges

Language Bridges is a student-led organization where CMU-Q students teach English to QF service workers. For many students, participating in Language Bridges is an introduction to teaching and sharing knowledge.

Outstanding Course Assistant

Each year, the Outstanding Course Assistant award recognizes a student who has made an exceptional contribution to student learning. This year, **Swapnendu Sanyal,** a senior in computer science, received the award.

StuCo program

The Student Courses (StuCo) program offers students the opportunity to design and deliver a unique course at CMU-Q. Students who are selected StuCo receive training and resources, including guidance on course design, syllabus writing, and teaching.

- ABCD: Any Body Can Dance
- Controversies: Think, Speak, and Listen
- Conversational Arabic for Non-Native Speakers
- Creative Expression through Japanese Culture
- Drawing and Surrealism
- Introduction to Ballroom Dancing
- Introduction to Improvisational Comedy
- Introduction to Pakistan and its Culture
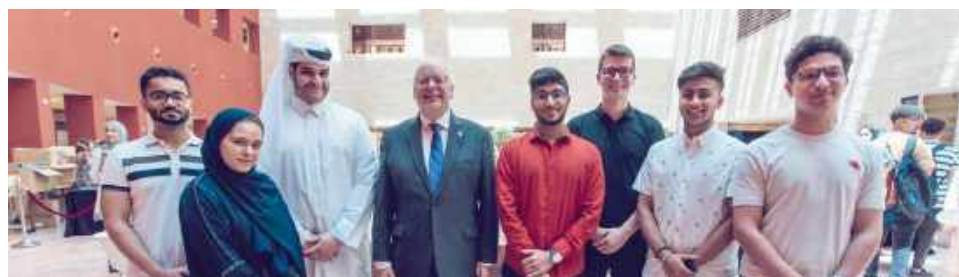- Introduction to Qur'an Recitation
- Qur'anic Stories

Leadership and Career Development

18
career information sessions

417
career counselling appointments

Through a slate of offerings outside the classroom, students learn how to work in teams, organize and lead groups, and network with people within and outside of the CMU-Q community. These skills are critical for new graduates to contribute and succeed in the workplace.

Internship Showcase

Internship Showcase 2019 brought together students from all years and programs of study to learn how internships can help put knowledge and learning into practice. **Fahad Salah Bahzad, Imane Bendou, Sondoss Hassan** and **Đorđe Popović** shared how interning helped to solidify the concepts they learned in the classroom.

Arabic language debate

A team of CMU-Q students placed third at the Asian Arabic Language Debating Championship held in Kuala Lumpur, Malaysia. **Rahaf Abutarbush, Ammar Karkour** and **Abdullah Shaar** were among nearly 50 teams from across Asia participating in the tournament.

Career networking

CMU-Q hosted several networking events for students to meet and learn from employers in discipline-specific industries. Bio Career Day included organizations who hire students and graduates in the biological sciences, and Professional Services Career Day featured management consulting companies. The annual Careers Platform 2019, Technology Edition, hosted 22 organizations.

30 student-led clubs

Academic
05 👤👤👤👤👤

Cultural
02 👤👤

Service
03 👤👤👤

Special interest
14 👤👤👤👤👤👤👤👤👤👤👤👤👤👤

Sports
06 👤👤👤👤👤👤

Student Majlis

The Student Majlis is the official student committee at CMU-Q, representing the student body with faculty leadership, overseeing clubs and activities and ensuring the community is cohesive and engaged.

- **Muhammad Ahmed Zahid,** President
- **Muhammad Syed,** Vice President
- **Đorđe Popović,** Head of Finance

- **Yara Al-Shakhs,** Head of Clubs and Organizations
- **Mubarak Al-Sulaiti,** Head of Communications
- **Arambha Niraula,** Head of Sports and Wellness

Student Leadership Awards

Each year, CMU-Q acknowledges graduating seniors who have excelled in the areas of leadership, service and community building.

- **Haya Al-Kaabi**
- **Omar El-Saka**
- **Dona Ferdinando**
- **Divi Mishra**

- **Hanna Farooq Moazam**
- **Fatima Mustafawi,** with distinction

Shift to virtual career development

As the pandemic shifted the outlook for summer internships and employment, CMU-Q, along with the QF partner universities, organized the first career-focused remote event titled, "Career opportunities and challenges in times of COVID-19." Nearly 130 students joined the virtual event to learn about the hiring landscape in Doha.

Research

At its heart, research at Carnegie Mellon looks for practical answers to complex, real world problems. In this spirit, we at the Qatar campus encourage our faculty members and students to explore their fields and engage in projects that will have an impact.

The Year in Faculty Research

13 ongoing NPRP grants

5 book chapters

75 published articles

51 conference presentations and invited talks

JISE Best Paper award

Silvia Pessoa, Maria Pia Gomez-Laich, Divakaran Liginlal, and **Thomas Mitchell** received the 2019 Best Paper award from the Journal of Information Systems Education (JISE). The paper is one of seven articles and 20 presentations to arise from SLATE-Q, a multi-year project called Scaffolding Literacy in Academic and Tertiary Environments in Qatar, which was funded by Qatar National Research Fund.

SmartTech '19 Research Outcome Seminar

Anis Charfi presented his work on Arabic author profiling for cyber security at the SmartTech '19 Research Outcome Seminar, hosted by Qatar National Research Fund.

New seed grants

- Cognition in context, **Jennifer Bruder**
- Understanding social, physical, and mental health and cognitive processes in the next generation of Qatar's leaders and influencers, **Lauren Burakowski**
- Unleashing the power of social commerce in the C2C platforms: A cross cultural analysis, **Nui Vatanasakdakul**

CMU-Q researchers are actively engaged with the international research community, leading or collaborating on a myriad of projects. Faculty members also contribute to the engines that drive international research, including academic publications, professional organizations, and conference organizers.

International research community collaborations

Khaled Harras was appointed associate editor for *IEEE Transactions on Mobile Computing*, a scholarly journal published by the IEEE Computer Society.

Kemal Oflazer served as senior program committee member for the 58th Annual Meeting of the Association for Computational Linguistics. He also served as area chair for the 2019 Conference on Empirical Methods in Natural Language Processing.

Saquib Razak served as advisor to the National Curriculum Committee for Pakistan's Ministry of Education and Professional Training, for the design of a national curriculum for middle school computer studies.

Benjamin Reilly was appointed to the editorial board of the *Journal of World History*.

Giselle Reis was the co-chair for the 2019 Proof Exchange for Theorem Proving in Brazil. She also served on the program committee for Tableaux 2019 in the UK and the 2020 Joint Workshop on Linearity in Logic and Computer Science and its Applications in France.

Ryan Riley was the technical program committee co-chair for the International Conference on Cyber Security for Emerging Technologies, hosted by Qatar University's KINDI Research Center.

Nui Vatanasakdakul served as the research track chair for the Green IS and Sustainability special interest group for the Americas Conference on Information Systems.

Ihab Younis was appointed an associate editor for *Frontiers in Oncology – Cancer Genetics*.

Linguistic map of Qatari dialects

Zeinab Ibrahim is leading a team to create an interactive linguistic map of Qatari dialects. The project was selected for QNRF's National Priorities Research Program. The team, which includes CMU-Q's **Houda Bouamor**, as well as researchers from Doha International Family Institute, Georgetown University in Qatar, and Qatar University, will map the variations of Qatari dialect and create a digital tool for exploring pronunciation, usage and expressions.

QNRF-funded Research Projects

For more than a decade, Carnegie Mellon University in Qatar has been proud to contribute to the Qatar National Vision 2030 through Qatar National Research Fund's National Priorities Research Program.

Role of the PDZ and LIM containing protein Zasp in integrin mediated cell adhesion
Lead PI: **Mohamed Bouaouina**

Arab author profiling for cyber-security
Lead PI: **Anis Charfi**
Subaward partners:
PI: **Wajdi Zaghouani**, Hamad Bin Khalifa University
PI: **Abdelmajid Ben Hamadou**, Centre de Recherche en Numérique de Sfax, Tunisia
PI: **Paolo Ross**, Polytechnic University of Valencia, Spain

New mathematical models for the large strain swelling response of biological tissues: Applications to edema, inflammation, and pregnancy
Co-Lead PI: **Hasan Demirkoparan**
Lead PI: **Thomas Pence**, Michigan State University, UA

Teams of aquatic/aerial robots for marine environmental monitoring (TARMEM)
Lead PI: **Gianni Di Caro**
Subaward partners:
PI: **Enrico Simetti**, University of Genova
PI: **Filippo Arrichiello**, University of Cassino and Southern Lazio

Towards mobile opportunistic cloud computing: Enabling generic computation offloading to extreme heterogeneous entities
Lead PI: **Khaled Harras**

MADAR: Multi-Arabic dialect applications and resources
Co-Lead PI: **Kemal Oflazer**
PI: **Houda Bouamor**
Subaward partners:
Lead PI: **Nizar Habash**, New York University Abu Dhabi
PI: **Owen Rambow**: Columbia University in the City of New York

Mohamed Bouaouina

Houda Bouamor

Anis Charfi

Hasan Demirkoparan

Gianni Di Caro

Maria Pia Gomez-Laich

Susan Hagan

Khaled Harras

Valentin Ilyin

Divakaran Liginlal

Selma Limam Mansar

Thomas Mitchell

Kemal Oflazer

Silvia Pessoa

Saquib Razak

Ryan Riley

Annette Vincent

Ihab Younis

Testing English reading comprehension through deep text analysis and question generation
Lead PI: **Kemal Oflazer**
PI: **Teruko Mitamura**, Carnegie Mellon University

SLATE-Q: Scaffolding literacy in academic and tertiary environments: The case of communication in information systems
Lead PI: **Silvia Pessoa**
PI: **Maria Pia Gomez-Laich**
PI: **Selma Limam Mansar**
PI: **Thomas Mitchell**
PI: **Susan Hagan**
PI: **Divakaran Liginlal**
Subaward partners:
PI: **Ryan Miller**, Kent State University
PI: **Ahmar Mahboob**, University of Sydney

Bringing computer science to secondary schools – Curriculum design and implementation
Lead PI: **Saquib Razak**

The garbled computer: Towards computing without seeing
PI: **Ryan Riley**
Subaward partner:
Lead PI: **Qutaibah Malluhi**, Qatar University

Using bacteriophages as biomonitoring tools for water quality measurements
Lead PI: **Annette Vincent**
PI: **Valentin Ilyin**
Subaward partner:
PI: **Basem Shomar**, Qatar Environment and Energy Research Institute (QEERI), HBKU

Circumventing of microbial bioinvasion controls by ballast water
PI: **Annette Vincent**
Subaward partner:
Lead PI: **Basem Shomar**, Qatar Environment and Energy Research Institute (QEERI), HBKU

Molecular profiling of breast cancer transcriptome and splicing aberrations
Lead PI: **Ihab Younis**

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.

UREP project on attitudes toward Qatar wildlife

Four information systems students are researching Qatar residents' awareness and attitudes toward native wildlife species. The team of **Reem Al-Haddad**, **Sara Al-Hemaidi**, **Amal Al-Korbi** and **Almayasa Al-Naimi**, along with faculty advisors **Jennifer Bruder** and **Lauren Burakowski**, received a grant for the project from the QNRF's Undergraduate Research Experience Program.

Summer Undergraduate Research Apprenticeship

Nesrine Affara, **Mohamed Bouaouina**, **Gordon Rule**, **Annette Vincent** and **Ihab Younis** created a new opportunity to introduce students to research. Available to students in any major, SURA participants learn the basics of research design and work under the mentorship of a faculty researcher.

- **Reem Al-Sayed**
- **Maryam Aslam**
- **Laila El-Beheiry**
- **Mariam El-Esnawy**
- **Maher Habboub**
- **Syeda Hira Hashmi**
- **Mohammed Tareef Sayed**

Qatar Student-Initiated Undergraduate Research Program

The Qatar Student-Initiated Undergraduate Research Program offers support for students pursuing a research, scholarly or artistic project over the summer. In 2019, seven students were selected for QSIURP awards.

- **Mariyam Amir**
- **Mohammad Shahmeer Ahmad**
- **Raghid Bsat**
- **Dona Ferdinando**
- **Mohammed Nurul Hoque**
- **Muhammad Nahin Khan**
- **Hari Krishna**

Senior Honors theses

Sixteen graduating students in all five academic programs completed a senior honors thesis. The students presented their research at a virtual event for students, faculty, families and the wider community.

> For some time now, these 16 graduating students have experienced one of the best feelings in research: to know something no one else in the world knows. Today, they will tell the world about their findings.
>
> **Michael Trick**
> College Honors presentations
> Class of 2020

- **Yasmin Abdelaal**
- **Alanood Al-Thani**
- **Haya Al-Kaabi**
- **Mohammed Yusuf Ansari**
- **Fahad Salah Bahzad**
- **Raghid Bsat**

- **Faiq Defiandry**
- **Aya El-Sakka**
- **Dona Ferdinando**
- **Mohammed Nurul Hoque**
- **Muhammad Nahin Khan**
- **Hanna Farooq Moazam**

- **Fatima Mustafawi**
- **Jize Ning**
- **Ayşe Haruka Açıkbaş**
- **Reema Subeh**

Meeting of the Minds

Since 2007, Meeting of the Minds has been an annual opportunity for students to present their research work to the community. With pandemic restrictions preventing an in-person event, CMU-Q created meetingminds.qatar.cmu.edu, a new digital channel for students to share their projects.

Meeting of the Minds 2020 projects, by faculty advisor

Nesrine Affara
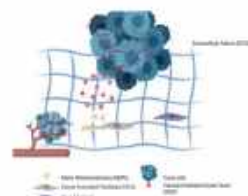
- Characterization of recruitment, activation, and induction of naïve fibroblasts in a tumor-educated environment, **Maha Al-Mulla**
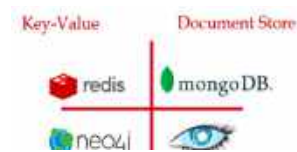- Profiling colorectal cancer cells and their interactions with fibroblasts in 3D spheroid cultures, **Joana Khatib**
- Comparative analysis of the role of the tumor cells in educating naïve fibroblasts into cancer-associated fibroblasts using 2D vs. 3D environments, **Ayşe Haruka Açıkbaş**

Mustafa Akan

- Measuring efficiency of Qatari public secondary boys schools outside Doha, **Shireen Ahmed, Fahad Salah Bahzad**
- Social welfare maximization for public transportation in Qatar, **Fahad Salah Bahzad**

Mohamed Bouaouina

- ECM effects on integrin-mediated signaling in breast cancer cells, **Sondoss Hassan**
- Machine learning-based method to identify coverslips on microscopy slides, **Abubaker Omer**

Anis Charfi

- Comparative study of NoSQL databases: Planning, modelling, implementation, management, **Mariyam Amir, Mohammad Shahmeer Ahmad**

Susan Hagan

- ICTruly Human Life: Using technology to help low-income expat workers in Qatar achieve a truly human life, **Fatima Mustafawi**

Mohammad Hammoud

- An experimental study of multi-stage retrieval systems, **Mohammed Yusuf Ansari**

Khaled Harras

- WebAssembly for agile offloading in edge computing, **Mohammed Nurul Hoque**

Christos Kapoutsis
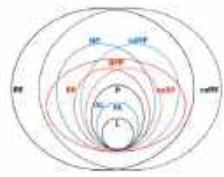
- Improved complement for two-way alternating automata, **Mohammad Zakzok**

Cecile le Roux

- Student achievement motivation at CMU-Q: Investigating the types of academic goals, reasons for goal pursuit, and goal-reason combinations that relate to academic achievement behavior for undergraduate university students in Qatar's branch campus of CMU, **Alanood Al-Thani**

Cecile le Roux, Marisella Rodriguez, Michael Melville

- Can we support students to think independently and develop reflective judgement?, **Mariyam Amir**

Selma Limam Mansar

- Examining the relationships and patterns in patient-initiated vlogs and their effect on vloggers' wellbeing, **Yasmin Abdelaal**
- Facilitating medical refills at the age of drones, **Aya El-Sakka**

> " At its essence, research is about collaboration. The Meeting of the Minds website reflects the Carnegie Mellon culture of mentoring, teamwork and innovation, especially in challenging times. "
>
> **Michael Trick**

Giselle Reis

- Sequoia: A playground for logicians, meta-properties, **Zan Naeem, Mohammad Hashim**
- Sequoia: A playground for logicians, proof tree building and unification, **Zan Naeem, Mohammad Hashim**
- Classical and constructive logic interactive theorem prover, **Samar Rahmouni**

Nui Vatanasakdakul

- Augmented reality and user satisfaction in leisure tourism, **Sara Al-Mohanadi, Reem Al-Haddad**
- Factors affecting the adoption of social commerce in the Indonesian retail industry: A consumer's perspective, **Faiq Defiandry**

Annette Vincent

- Nitrogen fertilizer - go or foe?, **Hissa Al-Fakhri, Mariam El-Esnawy, Reem Al-Sayed**
- L-leucine, a potential drug to inhibit cancer metastasis, **Weilin Li, Joana Khatib**

Zelealem Yilma

- Eigencentrality in bipartite graphs, **Mohammed Nurul Hoque**

Ihab Younis

- Investigating the alternative splicing patterns of RNA binding proteins (RBPs) in breast cancer, **Mariam El-Esnawy**
- Characterization of minor intron and minor intron-containing genes, **Beom Jin Park**

Carnegie
Mellon
University
Qatar

Our Stories

Throughout the year, and through a variety of media channels, we share our achievements and milestones with the Qatar community. We believe the stories of the CMU-Q community 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

109 news stories

284 events supported by MPR

228,705 unique visitors to www.qatar.cmu.edu

384 Instagram posts and stories

282 tweets and retweets from @CarnegieMellonQ and @DeanTrick

Through marketing and public relations, we share our achievements with the community, reach out to bright and ambitious high school students, and raise awareness of our talented graduates with potential employees.

Top news stories

CMU-Q welcomes Class of 2023	Minister of Commerce and Industry: Diversification, self-sufficiency are keys to Qatar's development
Innovative courses open up new worlds for Carnegie Mellon students	Governor of Qatar Central Bank: we can future-proof the nation's banking sector
Carnegie Mellon Qatar research wins 2019 Best Paper award	All-female Qatari team wins top award at Carnegie Mellon innovation competition
Hamad bin Jassim Center and Carnegie Mellon recognize winners of programming competition	Carnegie Mellon Qatar launches virtual computer science discovery workshop
Carnegie Mellon Qatar faculty explores the future of teaching	Carnegie Mellon Qatar celebrates Class of 2020

Digital channels

We reach out to our audiences through several digital channels by producing stories, event posters, photo galleries, posts and video, and then promoting that content through targeted use of social media.

CMU-Q in the news

Local, regional and international media published 462 articles about our events and accomplishments over the academic year.

Coverage by language

233 **229**
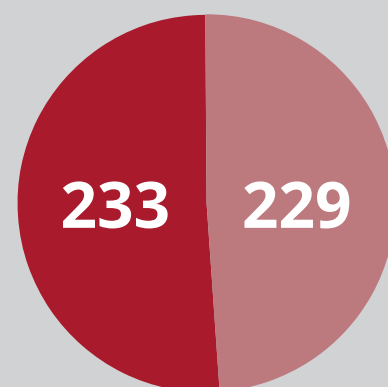
■ Arabic
■ English

Type of coverage

246 **216**
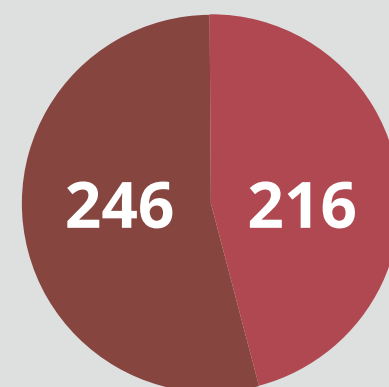
■ Online
■ Print

Virtual events

With the pandemic restrictions on in-person events beginning in March, CMU-Q turned to virtual events to celebrate the community's many achievements. CMU-Q hosted 24 virtual events as the academic year wrapped up.

Collaboration with Qatar Foundation

As a Qatar Foundation partner university, CMU-Q is proud to work with QF to showcase the achievements of our faculty and students. In the past academic year, CMU-Q participated in nine interviews or story collaborations with QF.

The Year in the News

Press release   **CMU-Q website story**   **News coverage**

Jul 2019

- Aspire Zone Foundation and CMU-Q sign agreement
- Carnegie Mellon graduate launches movie theater app for Qatar
- Getting the best of both worlds: CMU exchange student Lena Li on her Qatar experience
- "Now, it's time for culturally-relevant businesses"
- Sidra Medicine, CMU-Q sign pact to promote collaboration
- *Gulf Times:* International stem cell research org honors CMU-Q alumna
- QCRI concludes summer internship programme
- CMU-Q's Mohamed Bouaouina named 2019-20 Wimmer Faculty Fellow
- Qatar high school students explore careers and campus life at Carnegie Mellon

Aug 2019

- CMU-Q student secures first prize for QCRI research project
- Carnegie Mellon professor compiles decades of research into Turkish Natural Language Processing
- CMU-Q anthology celebrates creativity, artistic talent
- Class of 2023 Orientation: Envision endless opportunities
- CMU-Q welcomes Class of 2023
- Annual scholarship from Carnegie Mellon for most deserved

Sep 2019

- Qatar Foundation welcomes students at orientation event
- Minister of Commerce and Industry: Diversification, self-sufficiency are keys to Qatar's development
- Carnegie Mellon Qatar welcomes new faculty members
- Veteran NASA astronaut shares insights on decision-making dynamics at Carnegie Mellon
- CMU-Q announces class of 2020 scholars
- Carnegie Mellon Qatar welcomes most diverse new class in campus history
- CMU-Q students apply learning and knowledge through internship experiences
- Education City Health and Wellness Fair comes back to CMU-Q

'Now, it's time for culturally-relevant businesses'

«كارنيجي» تحتفي بطلاب دفعة 2023

التنويع والاكتفاء الذاتي قاطرة التنمية

"Being part of CMU-Q's Class of 2018 was a defining moment of my life"

خريطة تفاعلية للهجة القطرية

CMU-Q OFFERS BIG DATA TO FOOTBALL FANS AT DARB AL SAAI

Oct 2019

- *Gulf Times:* Carnegie Mellon startup achieves international tech success
- Carnegie Mellon Qatar lecture explores national food security
- Governor of Qatar Central Bank: we can future-proof the nation's banking sector with fintech
- Carnegie Mellon team wins Oman programming competition
- Carnegie Mellon Qatar celebrates academic excellence
- Personal struggle inspires launch of innovative healthcare platform
- "Being part of CMU-Q's Class of 2018 was a defining moment of my life"
- Meddy series A funding
- CMU-Q community plants trees as part of campus-wide commitment to sustainability

Nov 2019

- CMU-Q student takes second at sports tech hackathon
- Entrepreneurial alum wins "Best Startup" silver medal
- Mada MOU signing with CMU-Q
- Qatari entrepreneur urges Carnegie Mellon students to strive for global excellence in business and innovation
- Qatar tech firms share knowledge, opportunities at Careers Platform event
- High school students test drive CMU-Q's academic programs
- CMU-Q alums take first place at IdeaCamp 2019
- CMU-Q alum empowers people in Qatar to find a sport they will love
- President of Carnegie Mellon: "We will lead the transformation of higher education"
- Srinivasan Seshan on the past, present and future of the internet
- CMU-Q's Dudley Reynolds: "We live in an age where multilingualism is the norm"

Dec 2019

- CMU-Q alum organizing second Qatar 48-Hour Film Challenge
- CMU-Q team creates fast, inexpensive screening kit for genetic disease carriers
- Carnegie Mellon leads team to create interactive map of Qatari dialect
- Carnegie Mellon celebrates Qatar National Day with football big data
- Alum entrepreneurs make Forbes "30 under 30" list
- CMU-Q debaters place third at Asian Arabic language championship
- Zaid Haque on his years at CMU-Q: "If I could go back, I would tell myself to sleep less and enjoy the experience even more"
- Innovative courses open up new worlds for Carnegie Mellon students

The Year in the News

Press release   CMU-Q website story   News coverage

Jan 2020

Molly Wright Steenson on AI: "Every time you talk about an algorithm, you're also talking about a person"

Alum Asma Al-Kuwari on mentoring current CMU-Q students: "I want to be that person for them."

Sheikha Hind meets heads of QF's international education partners in US

CMU-Q student wins gold medal at Doha Oasis for Innovation

117 high school students explore their study options at CMU-Q

Fatima Amir on her CMU-Q experience: "As a senior, you look back at your freshman self and say, wow, that growth has been kind of crazy."

Carnegie Mellon Qatar admits largest group of Early Decision students

CMU's David Danks on the new micro course experience

Dean's Lecture Series enters 10th stimulating year

Ihab Younis: Precision medicine can become a reality through knowledge sharing and collaboration

Feb 2020

CMU-Q: Unmatched expertise

All-female Qatari team wins top award at Carnegie Mellon innovation competition

CMU-Q students win first place in Qatar University cyber challenge

Lebanese School of Qatar wins top prize at Carnegie Mellon's Botball

Carnegie Mellon team wins management consulting case competition

CMU-Q computer science students take top spots at Qatar University Math Competition

Carnegie Mellon University in Qatar alumni celebrate milestone reunions

CMU-Q hosts only Google Hash Code hub in Qatar

Biological sciences students encourage creativity, artistic exploration

Mar 2020

Simon DeDeo discusses the nature of intelligence and AI

Quantitative reasoning is critical for 21st century careers

Alumna MinKyung Kang is a blossoming entrepreneur

CMU-Q student creates two winning videos for Snapchat contest

CMU-Q grad receives platinum Education Excellence Award

Seven thousand miles away from campus, CMU-Q students experience Washington, DC

Dean Michael Trick says collaboration, community is making remote learning a success

Agustín Indaco: Saving the economy from the coronavirus

Apr 2020

Hamad bin Jassim Center and Carnegie Mellon recognize winners of programming competition

CMU-Q creates open mini-course on remote teaching

CMU-Q announces winners of Pi Day Math Contest 2020

Carnegie Mellon Qatar celebrates academic excellence in first virtual ceremony

Carnegie Mellon Qatar faculty explores the future of teaching

The future of libraries in a social distancing world

CMU-Q community rolls out the virtual red carpet for Class of 2024

Information Systems professor joins panel on climate change and coronavirus

BA student joins discussion on post-pandemic era

CMU-Q professor shares how to keep remote teams connected, happy, and productive

Nahin Khan's career path brings together two very different fields of study

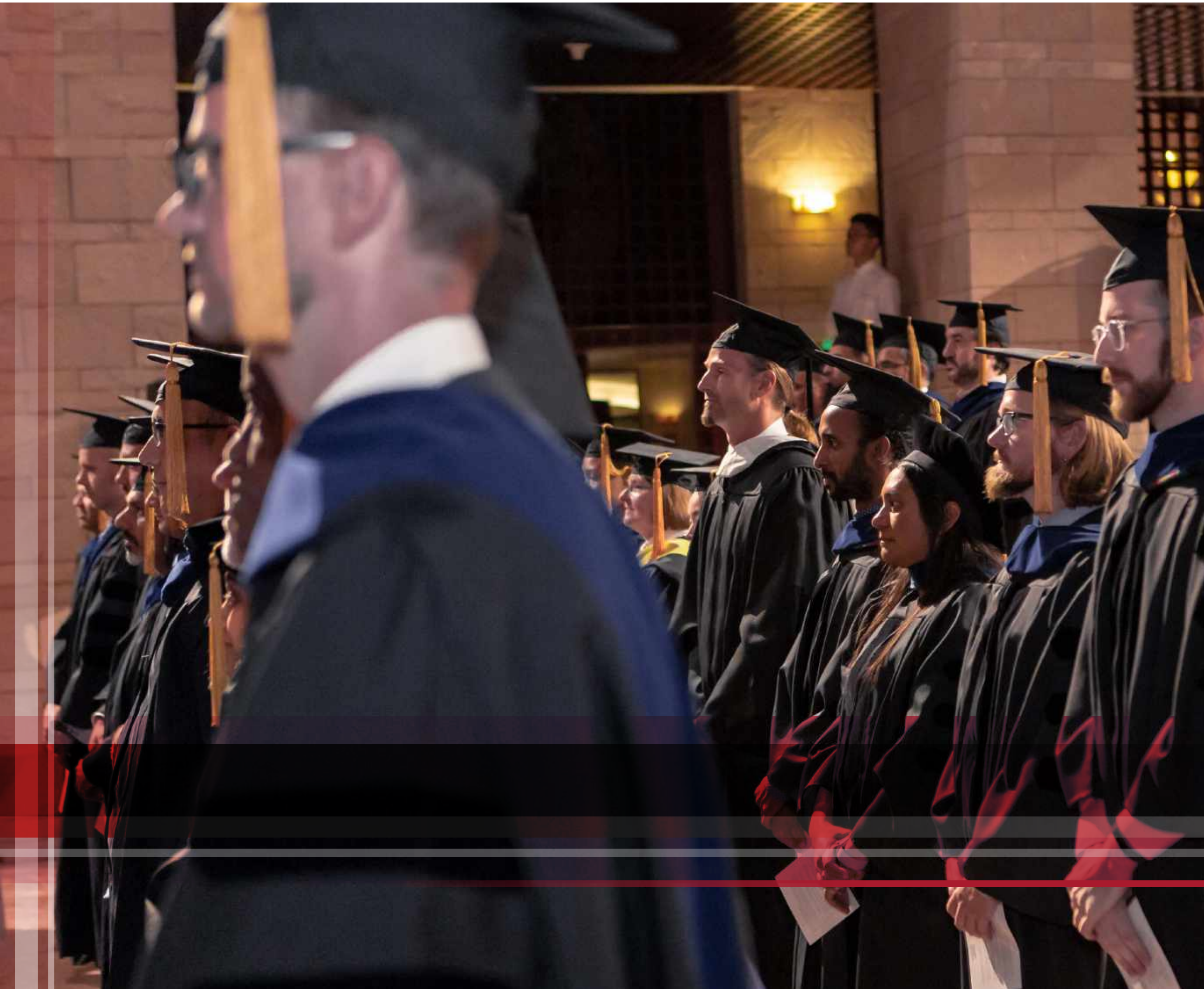Film by CMU-Q grad launches DFI's "Short of the Week" series

May 2020

Carnegie Mellon Qatar goes virtual to celebrate Class of 2020

Fatima Mustafawi's experience at CMU-Q inspires career in education

CMU-Q alumnus perfumer adapts his business to battle COVID-19

QF partner universities unite to help job-seeking students

Carnegie Mellon Qatar celebrates Class of 2020

Comp bio grad Raghid Bsat finds community, opportunities at CMU-Q

Working remotely: Balancing blended roles and competing demands

Jun 2020

Qatar's resilience has been an inspiration: Dean of CMU-Q

Fahad Bahzad has deepened his connection, contribution to Qatar

CMU-Q alum reimagines the education landscape

CMU-Q recognizes five graduates with top academic award

Hanna Moazam contributes to Carnegie Mellon community on three continents

CMU-Q recognizes two professors for exceptional teaching award

Carnegie Mellon Qatar research wins 2019 Best Paper award

CMU announces Nesrine Affara as 2020-21 Wimmer Faculty Fellow

CMU-Q Class of 2020 grad develops mobile app for low-income workers

Carnegie Mellon graduates to Al Sharq: The development of the business environment to reduce the risk of corona on society

Education City Graduation 2020

Carnegie Mellon Qatar launches virtual computer science discovery workshop

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CMU-Q honours 135 outstanding students at first virtual ceremony

Sheikha Hind meets heads of QF's global partners in the US

فريق طالبات يفوز بمسابقة كارنيجي ميلون للابتكار

تطوير بيئة الأعمال لتقليل مخاطر كورونا على المجتمع

Carnegie Mellon team wins McKinsey Case Competition

Qatar's resilience has been an inspiration: CMU-Q dean

Our Leadership, Our Faculty, Our Partners

Advisors and Senior Leadership
Academic Year 2019-2020

Joint Advisory Board

Qatar Foundation members	**H.E. Dr. Hessa Sultan Al Jaber** Chairperson, Es'hailSat, The Qatar Satellite Company	
	H.E. Sheikh Faisal Bin Qassim Al Thani Chairman, Al Faisal Holding	
	Reem Al Mansoori Assistant Undersecretary, Digital Society Development Sector Ministry of Transport and Communications	
	Ahmed Elmagarmid Executive Director, Qatar Computing Research Institute Hamad Bin Khalifa University	
Carnegie Mellon University members	**James H. Garrett, Jr.** Provost and Chief Academic Officer	
	Mary Jo Dively Vice President and General Counsel	
	Amy Burkert Vice Provost for Education	
	Duane Seppi (Fall 2019) The BNY Mellon Professor of Finance Tepper School of Business	
	Jonathan Caulkins (Spring 2020) H. Guyford Stever University Professor of Operations Research and Public Policy Heinz College	
Independent members	**N. Balakrishnan** Associate Director Indian Institute of Science	
	Gabriel Hawawini The Henry Grunfield Professor of Investment Banking INSEAD	
	Kurt Mehlhorn Director, Max Planck Institute for Informatics Saarland University	
Ex officio members	**Michael Mitchell** General Counsel, Qatar Foundation	
	Michael Trick Dean Carnegie Mellon University in Qatar	

Dean's Office

Michael Trick	Dean Harry B. and James H. Higgins Professor of Operations Research
Selma Limam Mansar	Senior Associate Dean, Education Area Head, Information Systems Teaching Professor, Information Systems
John O'Brien	Senior Associate Dean, Faculty and Outreach Area Head, Business Administration Associate Professor, Accounting and Experimental Economics
Kemal Oflazer	Associate Dean, Research Area Head, Computer Science Teaching Professor, Computer Science
Fadhel Annan	Associate Dean, Government and Corporate Affairs
Renee Camerlengo	Associate Dean, Student Affairs and International Education
Edna Jackson	Director, Dean's Office
Richard Mundy	Chief Operations Officer
Kara Nesimiuk	Executive Director, Marketing and Public Relations
Khalid Sarwar Warraich	Chief Information Officer

Faculty Leadership

Chadi Aoun	Program Director, Information Systems Associate Teaching Professor, Information Systems
Khaled Harras	Program Director, Computer Science and Computational Biology Teaching Professor, Computer Science
Patrick McGinnis	Program Director, Business Administration Distinguished Career Professor, Business Communication
Marion Oliver	Area Co-Head, Arts and Sciences Teaching Professor, Mathematics
Dudley Reynolds	Area Co-Head, Arts and Sciences Teaching Professor, English
Gordon Rule	Area Head, Biological Sciences Professor, Biological Sciences
Annette Vincent	Program Director, Biological Sciences Associate Teaching Professor, Biological Sciences

Faculty
Academic Year 2019-2020

Nesrine Affara	Assistant Teaching Professor, Biological Sciences
Mustafa Akan	Associate Professor, Operations Management
Serkan Akgüç	Assistant Teaching Professor, Finance
Chadi Aoun	Program Director, Information Systems Associate Teaching Professor, Information Systems
Ravichandra Bachu	Assistant Teaching Professor, Chemistry
Serra Boranbay-Akan	Assistant Teaching Professor, Economics
Houda Bouamor	Assistant Teaching Professor, Information Systems
Mohamed Bouaouina	Associate Teaching Professor, Biological Sciences
Jennifer Bruder	Assistant Teaching Professor, Psychology
Lauren Burakowski	Assistant Teaching Professor, Psychology
Anis Charfi	Associate Teaching Professor, Information Systems
Milton Cofield	Distinguished Service Professor, Business Management
Hasan Demirkoparan	Associate Teaching Professor, Mathematics
Gianni Di Caro	Associate Teaching Professor, Computer Science
Kira Dreher	Assistant Teaching Professor, English
Fuad Farooqi	Associate Teaching Professor, Finance
Simon Faulkner	Assistant Teaching Professor, Chemistry
Maria Pia Gomez-Laich	Assistant Teaching Professor, English
Susan Hagan	Associate Teaching Professor, Information Systems
Mohammad Hammoud	Assistant Teaching Professor, Computer Science
Khaled Harras	Program Director, Computer Science and Computational Biology Teaching Professor, Computer Science
Erik Helin	Special Lecturer, Spanish
Zeinab Ibrahim	Teaching Professor, Arabic Studies
Valentin Ilyin	Associate Teaching Professor, Computational Biology
Agustín Indaco	Assistant Teaching Professor, Economics
Lansiné Kaba	Thomas M. Kerr Distinguished Career Professor
Christos Kapoutsis	Associate Teaching Professor, Computer Science
Niraj Khare	Assistant Teaching Professor, Mathematics
Jasmine Kirby	Instruction and Engagement Librarian
Ramesh Krishnamurti	Professor, Architecture
Cecile le Roux	Assistant Teaching Professor, Organization and Behavior
Divakaran Liginlal	Teaching Professor, Information Systems
Selma Limam Mansar	Senior Associate Dean, Education Area Head, Information Systems Teaching Professor, Information Systems
Teresa MacGregor	Director, Library
Patrick McGinnis	Program Director, Business Administration Distinguished Career Professor, Business Communication
Eduardo Miranda	Associate Teaching Professor, Information Systems
Thomas Mitchell	Associate Teaching Professor, English
Ezzohra Moufid	Lecturer, French
Deepa Nair	Assistant Teaching Professor, History
John O'Brien	Senior Associate Dean, Faculty and Outreach Area Head, Business Administration Associate Professor, Accounting and Experimental Economics
Kemal Oflazer	Associate Dean, Research Area Head, Computer Science Teaching Professor, Computer Science
Marion Oliver	Area Co-Head, Arts and Sciences Teaching Professor, Mathematics
Taeyong Park	Visiting Assistant Teaching Professor, Statistics
Silvia Pessoa	Associate Teaching Professor, English
Daniel C. Phelps	Associate Teaching Professor, Information Systems
Saquib Razak	Associate Teaching Professor, Computer Science
Benjamin Reilly	Teaching Professor, History
Giselle Reis	Assistant Teaching Professor, Computer Science
Dudley Reynolds	Area Co-Head, Arts and Sciences Teaching Professor, English
Ryan Riley	Associate Teaching Professor, Computer Science
Gordon Rule	Area Head, Biological Sciences Professor, Biological Sciences
Veli Safak	Assistant Teaching Professor, Economics
Varun Sharma	Assistant Teaching Professor, Marketing
Jeff Squires	Assistant Teaching Professor, English
Michael Trick	Dean Harry B. and James H. Higgins Professor of Operations Research
Nui Vatanasakdakul	Associate Teaching Professor, Information Systems
Annette Vincent	Program Director, Biological Sciences Associate Teaching Professor, Biological Sciences
Patrick Walsh	Assistant Teaching Professor, Philosophy
George White	Distinguished Career Professor, Entrepreneurship
Zelealem Yilma	Assistant Teaching Professor, Mathematics
Ihab Younis	Associate Teaching Professor, Biological Sciences
Mohamed Zayed	Associate Teaching Professor, Physics

Community Partners

Carnegie Mellon has built relationships with companies and organizations across various sectors. Our partners work closely with us by speaking through our Career Development Office, providing internships and jobs, participating in Community Partner Workshops, sponsoring students, sponsoring events and strengthening ties through Memoranda of Understanding.

004 Arabia
AbuIssa Holding
ADabisc
Adecco Group
Al Emadi Enterprises
Al Faisal Holding
Al Jazeera Media Network
Al Khalij Commercial Bank (al khaliji)
Al Sawari Holding
AlFaisal Without Borders Foundation
Alfardan Group
Ali Bin Ali Group
Amiri Diwan
Aspire Zone Foundation
Bain
Barzan Holdings
Bayt.com
beIN MEDIA GROUP
Boeing
Boston Consulting Group
Canon
Careem
Center for GIS Qatar
Cisco
Coca-Cola
Commercial Bank of Qatar
Communications Regulatory Authority
Cosette Solutions
Council of Ministers

Darwish Holding
Davidson Consulting
Deloitte
DHL
Digital Incubation Center
EBLA Computer Consultancy Company
EButler
Education Above All
Education USA
Embassy of Belgium in Qatar
Embassy of Canada to Qatar
Embassy of France, Doha
Embassy of Italy in Doha
Embassy of the Republic of Serbia
Embassy of the State of Kuwait
Equine Veterinary Medical Center
EY
ExxonMobil Qatar
GE
Georgetown University in Qatar
German Embassy in Doha
Girnaas
Gulf Bridge International
Gulf Business Machines
Hamad Bin Khalifa University
Hamad Medical Corporation
Henkel
Hilti
Hochtief Vicon

Huawei
INJAZ Qatar
Internal Security Force (Lekhwiya)
Intesa Sanpaolo
Investment Promotion Agency Qatar
Jassim and Hamad Bin Jassim Charitable Foundation
Katara Cultural Village
Kearney
KPMG
Mada - Assistive Technology Center Qatar
Malomatia
Mazars
Mazaya Qatar
McKinsey & Company
Meddy
Medihealth Solutions At-Home-Doc
Microsoft
Ministry of Administrative Development, Labour and Social Affairs
Ministry of Commerce and Industry
Ministry of Defense
Ministry of Education and Higher Education
Ministry of Finance
Ministry of Foreign Affairs
Ministry of Interior
Ministry of Municipality and Environment
Ministry of Transport and Communications
Modaris
Nakilat
National Center for Cancer Care and Research
Nestlé
Northwestern University in Qatar
Oliver Wymann
Olympic Stars
Omani Embassy in Doha, Qatar
One Foods
Oola Sportswear
Ooredoo
Oryx GTL
Planning and Statistics Authority
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.
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 Foundation Research, Development and Innovation
Qatar Investment Authority
Qatar Mobility Innovation Center
Qatar Museums Authority
Qatar National Bank
Qatar National Research Fund
Qatar Olympic Committee
Qatar Petrochemical Company (QAPCO)
Qatar Petroleum
Qatar Science and Technology Park
Qatar Shell
Qatar Solar Technologies
Qatar Stock Exchange
Qatar University
QatarGas
QInvest
QLife Pharma
Regency Group Holding
Rheinmetall Barzan Advanced Technology Academy
Salam Technology
Saleh Hamad Al Mana Co.
SAP
SDK Marketing
Sidra Medicine
Siemens Qatar
Silatech
Snoonu
STA Enterprises
Standard Chartered
State Audit Bureau
Subol Innovation
Supreme Committee for Delivery and Legacy
Teach For Qatar
TESOL International Association
Texas A&M University at Qatar
Trio Investment
U.S. Embassy in Qatar
VCUArts Qatar
Vodafone Qatar
Weill Cornell Medicine—Qatar
World Innovation Summit for Education (WISE)
Woqood
Zomato

About Us

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. More than 400 students from 52 countries call Carnegie Mellon Qatar home.

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 13 graduating classes, the total number of alumni is nearly 1000.

To learn more, visit www.qatar.cmu.edu and follow us on:

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Produced by the Office of Marketing and Public Relations at CMU-Q.