

45

חבר הנאמנים
Board of Governors
مجلس الأمناء

Special Edition

HEIGHTS

UNIVERSITY
OF HAIFA MAGAZINE

SUMMER 2017



Multiversity of Haifa @2022

Vision & Strategy - p9



*Welcome Governors and Guests
to the University of Haifa's
45th Board of Governors Meeting.*

Featured in this special edition of Heights
is the University's Five-year Multiversity
Strategy & Vision (2017–2022).

HEIGHTS MAGAZINE


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Special Edition **HEIGHTS**

CONTENTS

- 2-7 **Exploring the Interconnectivity of Things:**
A glance into University of Haifa's interdisciplinary research centers on the cutting-edge of emerging fields
- 3 **Harnessing Real-Life Data to Understand Investment Behavior**
- 4 **Big Data Mining and Analytics – Key to Advancing the Field of Precision Medicine**
- 6 **Spearheading Israel's Legal Strategies in New Digital Ecosystems**
- 7 **Investigating Early Literacy in Hebrew and Arabic Languages to Help Kids Reach Their Full Potential**

FEATURE
Multiversity of Haifa
@ 2022
Vision & Strategy
insert

- 8 **Preserving the Memory of the Holocaust in a Complex and Changing World**
- 9 **Student Spotlight:**
How my study abroad year changed my life
- 10 **Leading the Worldwide Effort of Globalizing Medical Ethics Education**
- 11 **Alumni Spotlight: Not your typical Israel Advocate**
- 12 **Meet University of Haifa's 2017 Honorary Doctorate Conferees**
- 14 **Saluting Outstanding Service to the University**
- 16 **The University of Haifa Salutes Outstanding Service**



Exploring the Interconnectivity of Things

IN AN INCREASINGLY DIGITIZED WORLD,
BIG QUESTIONS CAN ONLY BE SOLVED BY **TRANSCENDING**
TRADITIONAL DISCIPLINARY BOUNDARIES.

EARLY CHILDHOOD
EDUCATION
BIOLOGY
ECONOMICS
LAW **HISTORY**
IT
PSYCHOLOGY
HUMANITIES

The pace of change propelled by the digital revolution is transforming the process of knowledge creation and the development of practical solutions to complex problems.

At the University of Haifa, the traditional barriers between academic departments and faculties were never set in stone, making it a fertile breeding ground for scholarly engagement and groundbreaking research.

The following pages showcase a few of our research centers that are integrating multi-disciplinary approaches with data analytics to better understand investment behavior, advance healthcare service delivery, protect civil liberties, and improve learning outcomes for children.

Buy? Hold? **Sell?**

Every major change begins with one small step.

HARNESSING REAL-LIFE DATA TO UNDERSTAND OUR INVESTMENT BEHAVIOR

Prof. Doron Kliger
Chair of the Economics
Department
Head of the new
Finance and Behavioral
Economics Research
Center (FiBER)



Event Studies for Financial Research is a guide for researchers using event studies to assess the impact of events on security prices and trading activities of publicly traded firms, co-authored by Prof. Kliger and Dr. Gregory Gurevich.

“Recent findings reveal that external variables, such as advertisements, the weather, and even the season may affect people’s investment behavior. These factors channel our associations and impact our moods and attitudes, which in turn influence our decisions,” explains Prof. Doron Kliger, Head of the new Finance and Behavioral Economics Research Center (FiBER) and Chair of the Department of Economics. “Cloudy days as opposed to sunny days, spring or fall, time of day, and even optimistic stories vs bad news have a psychological effect on our way of processing information and risk taking choices.”

Kliger, an expert in behavioral economics, employs real-time data gathered in field experiments to uncover people’s behavior in real-life financial situations, and the influence of psychology and cognitive biases on their investment and financial decisions. Under his direction, the new FiBER Center will serve as a hub for research and education in Finance (Fi) and Behavioral Economics (BE), linking the academic community and the public and private sectors in order to improve investor protection legislation and lead to the development of better financial tools and products.

Researchers at the Center are currently exploring the impact of investment products on the economic growth of emerging markets. “Our pioneering study will assess factors affecting investor behavior in the Jordanian financial market, thanks to a unique collaboration with Jordanian

researchers, the Amman Stock Exchange and Jordan Securities Commission,” explains Kliger. “As part of the study we plan to apply sentiment analysis – known as opinion mining – to elicit investor attitudes from media and big-data analytics, to extract useful non-numerical information from company financial reports.”

A future state-of-the-art Simulation and Trading Lab will be set up to enable researchers and students to gain insights into real-world trading behaviors. “The unique combination of a behavioral economics lab with real-data market situations promises to propel a quantum leap in the understanding of behavioral economics and financial decision-making,” adds Prof. Kliger.

Activities at the Center have attracted the attention of Israeli and international experts, among them behavioral economics gurus Dan Ariely, Shlomo Benartzi, Uri Gneezy, and Burton Malkiel, all FiBER research affiliates.

The Finance and Behavioral Economics Research Center is being established at the Herta and Paul Amir Faculty of Social Sciences, and is seeking support to expand its advanced academic and research agenda. For more information please contact the Office of the Vice President for External Affairs and Resource Development.



TRANSFORMING HEALTHCARE

with **BIG DATA MINING & ANALYTICS**

Scientists at The Tauber Bioinformatics Research Center (TBRC) are analyzing massive volumes of biomedical data to accelerate the development of new drugs and pave the way for personalized medicine.

Big data is much more than just a buzzword. When harnessed correctly it becomes a powerful resource for understanding molecular and cellular mechanisms, with enormous potential to transform our approach to healthcare and enhance quality of life. From treating diseases to enhancing the nutritional quality of plants, the analytics of multi-omics data – genomics, transcriptomics, proteomics, and metabolomics – is increasingly being used for research, diagnosis, and treatment in the fields of molecular biology, biochemistry, cell biology, or clinical/pre-clinical research.

Established with the generosity of the Laszlo N. Tauber Family Foundation, TBRC is developing computational solutions to ease and streamline multi-omics data analysis and integration. “We use our powerful multi-omics analysis platform, T-BioInfo, to simplify bioinformatics and enable biologists to participate in the discovery of molecular diagnostics, small molecules, vaccines, and advanced medical treatments,” explains Prof. Leonid Brodsky, TBRC Director. “Our goal is to equip biomedical researchers and clinicians with a simple and intuitive platform that enables faster and easier analysis, integration, and visualization of big biological data. With the assistance of T-BioInfo, biologists and medical researchers will be able to advance the field of precision medicine and enhance personalized healthcare as well as discover new drugs.”

T-Bio PLATFORM prepares a “pipeline” through which to process and integrate “multi-omics” data, consisting of genomics, transcriptomics, proteomics, and metabolomics. The intuitive interface recommends the most meaningful combinations of algorithms available for processing datasets uploaded by the user.



(l-r) Prof. Leonid Brodsky and Prof. Fred Tauber at the opening of TBRC's new office, located on the University of Haifa campus.

Under the leadership of Prof. Brodsky, the Center's team consisting of mathematicians, biologists and programmers are developing a world-class, proprietary solution being used in research laboratories across the globe. The T-BioInfo platform became so successful that it led to the establishment of Pine Biotech, a bioinformatics start-up company. Established under the auspices of Carmel-University of Haifa Economic Corp., the University's technology transfer organization, Pine Biotech is working with prestigious academic medical centers and universities including the Mayo Clinic, UCSF, Stanford University, Boston University and Penn State University.

TBRC is also engaged in projects with governmental agencies in the United States. Following the successful completion of a multi-year virology project with the Defense Advanced Research Projects Agency (DARPA) of the United States Department of Defense, the Center was invited to participate in a new four-year DARPA virology project called The INTERCEPT Program for Bio-



The ability to harness comprehensive data collected over time about an individual's genetics, environment, and lifestyle has the potential to advance disease understanding and interception, aid drug discovery, and ultimately enhance the quality of patient care.

Prof. Leonid Brodsky, founding Director of TBRC, has been a leading expert in bioinformatics research, computational biology and systems biology modeling for over 30 years. He holds multiple leadership positions in academic and commercial settings.



defence Countermeasures. In addition to bioinformatics data analysis, it will perform mathematical modeling and simulation of virus-host interactions for RNA positive strand viruses (such as Polio, Dengue, Chikungunya, and West Nile virus). The goal of the project is to explore and develop a new therapeutic platform that could slow down the spread of viral epidemics, through the introduction of virus-based therapeutic particles that disrupt the viral infection.

"Discoveries already made in the field - mainly stemming from research labs - are just the start of a big data revolution. The challenge is to enable a wider range of researchers and clinicians to take advantage of these new resources," relates Prof. Tauber. "We envision our user-friendly T-BioInfo platform as a smartphone-like interface in the hands of practical medical workers and non-bioinformatician biologists, allowing them to take advantage of the power of big data."

At the Intersection of Law, National Security, Civil Liberties & // technology



The National Cyber Bureau of Israel recently awarded the University of Haifa with leadership of a new Research Center for Cyber, Law and Policy.

The ubiquitous nature of digital technologies – bursting onto the scene two decades ago with little consideration to future ramifications and potential vulnerabilities – are calling into question some of the most basic tenets of democracy and national security.

“Digital tools are increasingly vulnerable to cyber attacks, threatening infrastructure and individual safety,” relates Professor Niva Elkin-Koren, former Dean of the Faculty of Law and head of the new Research Center for Cyber, Law and Policy. “Laws, norms, and policies are struggling to keep up with the seemingly endless free flow of information in cyberspace that lets anyone anywhere in the world share their political views, buy and bank, turn on appliances, and even engage in cybercrimes and warfare,” adds Prof. Elkin-Koren. “The lack of appropriate legal standards often upsets the checks and balances that secure civil liberties, such as government and corporate surveillance safeguards, and stifles innovation and opportunities for economic growth domestically and overseas. There is therefore an urgent need to develop innovative legal strategies to address these challenges properly.”

Israel was the first country to secure government and military computer networks from cyberattacks and is considered a world leader in cybersecurity. In 2011, the government set up The National Cyber Bureau to improve Israel’s preparedness in dealing with the full range of current and future challenges in cyberspace. The Bureau recently charged the University’s Faculty

of Law with shaping national legal policies related to the internet, new technologies and civil liberties.

“Taking an interdisciplinary approach to law and policy, the Research Center for Cyber, Law and Policy will integrate legal research, computer science, social science and innovative technologies, to develop a new ‘toolkit’ for policymaking, in addressing governance, national security, innovation, competition and civil rights in the new digital ecosystem,” explains Prof. Elkin-Koren. “Advanced legal knowledge of this kind alongside expertise in the field of cybersecurity will ensure that Israel has a seat at important international forums.”

The University of Haifa is uniquely qualified to lead this academic effort, with its proven pioneering record in leading academic research on issues of law, technology and society, and its vast network of partners and collaborators around the globe. It is home to the Haifa Center for Law and Technology (HCLT), the Minerva Center for the Rule of Law under Extreme Conditions, the Center for Internet Research and The Caesarea Edmond Benjamin de Rothschild Foundation Institute for Interdisciplinary Applications of Computer Science.

For information about supporting the forward-looking research and teaching activities at the new Research Center for Cyber, Law and Policy, please contact the Office of the Vice President for External Relations and Resource Development.



Prof. Niva Elkin-Koren, founding Director of the Cyber, Law and Policy Research Center, is the former Dean of the Faculty of Law at the University of Haifa. She studies innovation policy, intellectual property, and big data.



LEVELING THE LEARNING PLAYING FIELD



Early-literacy study to improve diagnosis and treatment of learning disabilities among Hebrew and Arabic speakers



Dedicated to enabling all children to reach their full potential, the Edmond J. Safra Brain Research Center for the Study of Learning Disabilities is currently pioneering a comprehensive study on early literacy in Hebrew and Arabic languages. Research results are being used to develop cutting-edge interventions that will provide all children with a head start in school.

Prof. Asaid Khateb, is the Head of the Unit for the Study of Arabic Language and the Director of The Edmond J. Safra Brain Research Center for the Study of Learning Disabilities. He was recently appointed to the Israel Council for Higher Education.

“A new large-scale early literacy research project is currently underway that will follow and study a total of 2,000 Hebrew and Arabic speaking children over a four-year period,” explains Prof. Asaid Khateb, Director of The Edmond J. Safra Brain Research Center. “We hope it will shed light on the

natural course of Hebrew and Arabic literacy development of typical, as well as at-risk learners, from kindergarten through second grade.” Outcomes of the study, led jointly by Prof. Khateb and Prof. David Share of the Department of Learning Disabilities, are expected to have a significant impact on Israeli education and health care systems. “It will introduce validated assessment tools and performance norms for the early identification of at-risk learners, as well as tailored materials and educational content for teachers to help students with learning difficulties from diverse language backgrounds,” adds Prof. Khateb.

Arabic is the fourth most prevalent language in the world, spoken by nearly 400 million people, yet surprisingly, there have been virtually no comprehensive longitudinal studies conducted on the development of literacy skills in Arabic. Researchers at the Edmond J. Safra Brain Research Center pioneered the development of the first computerized diagnostic and remedial tools specifically adapted for Arabic speakers.

New insights into the Semitic languages Hebrew and Arabic, with their unique linguistic structures, also promise to contribute to our understanding of early childhood learning processes and of the conditions leading to literacy and numeracy difficulties that, until now, have focused almost exclusively on speakers of English and other European languages.

Since its conception ten years ago by founding visionary Prof. Zvia Breznitz (z”l), the Center has trained more than 1,000 teachers and led to the development of scores of training programs implemented in schools serving Arabic-speaking communities throughout Israel. The Edmond J. Safra Brain Research Center for the Study of Learning Disabilities is a unique academic institute in Israel bringing together broad interdisciplinary expertise in the fields of early learning, skill acquisition, brain sciences and developmental disorders.



Mrs. Lily Safra

Established with the generosity of **Mrs. Lily Safra and the Edmond J. Safra Philanthropic Foundation** in 2008 at the University of Haifa, the Center has evolved to become a world-renowned research, training and teaching center. Mrs. Lily Safra

and her late husband, Edmond J. Safra (z”l), have been longstanding friends of the University and have generously supported research in the biological sciences. The University honored Mrs. Lily Safra with an Honorary Doctorate in 2009 for her

charitable activities supporting projects related to education, science and medicine, culture and humanitarian relief in Israel and around the world.

PRESERVING THE MEMORY OF THE HOLOCAUST

in a Complex and Changing World



Archival research into the lives of Jewish artists who lived during the Holocaust is shedding new light on the rich diversity of Jewish culture.

As part of its efforts to foster a young generation of Holocaust scholars and educators, the Strochlitz Institute for Holocaust Research at the University of Haifa, headed by Prof. Arie Kochavi, launched the Weiss-Livnat MA Program for Holocaust Studies, Israel's only interdisciplinary graduate program in Holocaust studies. The international graduate program is taught in English by a multi-disciplinary team of scholars. This year the program opened a new course exploring a largely untapped resource in Holocaust studies – Jewish artists in the Second World War.

Researching and Restaging the Ghez Collection of Jewish Artists Who Perished in the Holocaust: A Curatorial Experiment, is taught by art historian Dr. Rachel Perry. "As part of the course, students engage in hands-on archival research at the Hecht Museum in an attempt to shed light on the social, religious, and political backgrounds of the artists," explains Dr. Perry. The Ghez Collection, donated to the Hecht Museum by the late Swiss art collector Dr. Oscar Ghez, consists of over 130 works by 18 mostly unknown Jewish artists who perished in the Holocaust.

"Tracing the original works by Jewish artists who perished in the Holocaust is a way for us to bring to life the personal stories of the artists," shares Meredith Scott, a graduate student enrolled in the course. Meredith is tracking the art of Adolphe Feder, who moved to Paris from Odessa. She discovered that when the Nazis invaded France, Feder and his wife were arrested and sent to Drancy Concentration Camp. "There he continued to paint,

and his art was saved by his wife who smuggled it out of Drancy at the end of the war," adds Meredith.

The Weiss-Livnat International MA in Holocaust Studies attracts talented students from all corners of the world, from North America and Europe and as far away as Australia, China and Cambodia. "Students benefit from unique internship opportunities, seminars and foreign study tours offered in partnership with prominent Holocaust museums and archives in Israel, Germany, Poland, UK and the US," emphasizes Prof. Kochavi.

The MA Program is named for Yitzhak Livnat (z"l), memorialized by his son, Doron Livnat, a member of the University of Haifa's Board of Governors. The University awarded Doron an Honorary Doctorate in 2016. The Azrieli Foundation of Canada, Marcus and Carole Weinstein, the Foundation for the Memorial of Jacob Moskovitz & Vladislava, The Rose and Sigmund Strochlitz Foundation, and the Shapell Family have also given generously to the Program.



At a recent visit to the University, Claude Ghez spoke with the students in the course about what they have uncovered about the artists of his father's collection. Dr. Oscar Ghez procured the paintings in Paris after the Second World War.



The Strochlitz Institute for Holocaust Research

is dedicated to nurturing interdisciplinary research and education of the Holocaust, through the cultivation of academic collaborations with universities, research institutes and Holocaust and Jewish museums in Israel and around the world. In addition, it oversees the publication of the international journal *Dapim: Studies on the Holocaust*, to encourage the exploration of new research agendas and provide an academic platform for young Holocaust researchers and established scholars.

Multiversity of Haifa @ 2022

VISION & 5-YEAR PLAN





Presented on the occasion of the Board of Governors Meeting

“Welcome to the University of Haifa’s 45th Board of Governors Meeting. This is an especially exciting year for our Board, as we discuss our bold multi-campus expansion plans and chart the future course of the University. I especially look forward to joining you in paying tribute to our distinguished honorary doctorate recipients and sharing our research successes.”

RE-establishing the University of Haifa

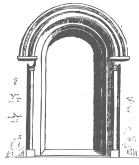
As 2022 draws near, marking the University of Haifa’s 50th year, an ambitious five-year plan will set in motion accelerated institutional growth, enhanced educational experiences for our diverse student population, increased opportunities for social mobility, and further growth for the region. By undertaking this bold new strategy, we will transform the University into a magnet for the best and brightest and a breeding ground for knowledge and innovation.

The University of Haifa’s ‘Multiversity’ will encompass academic entry points or portals across Haifa, the Galilee region and as far as China, that offer world-class education in the humanities and social sciences, health and biomedical sciences, marine and natural sciences, biotechnology and healthcare, law, management and education, as well as emerging interdisciplinary fields such as artificial intelligence, bioinformatics, and behavioral economics.

FIVE-YEAR STRATEGY

We envision an institution of higher learning with academic portals, each offering academic opportunities in their areas of expertise, and geared towards transdisciplinary collaboration and networking.





The Mount Carmel Portal

will continue to serve as the main portal and administrative center. The Carmel campus is home to 7 faculties, 8 schools and some 70 innovative research centers. Our diverse research institutes range from the National Security Studies Center, The Helmsley Charitable Trust Mediterranean Sea Research Center, and the Research Center for Cyber, Law and Policy to Learning In a Networked Society (LINKS) I-CORE, the Center for Gene Manipulation in the Brain, the Strochlitz Institute for Holocaust Research, and The Edmond J. Safra Brain Research Center for the Study of Learning Disabilities.



The Mount Carmel campus was originally built for 7,000 students and now serves 18,000. Built on a nature reserve, this campus has reached its maximum capacity.



Marine Sciences Portal

is poised for a dramatic expansion of its research efforts, thanks to the generous grant from the Leona and Harry B. Helmsley Charitable Trust provided to the Leon H. Charney School of Marine Sciences towards cutting-edge equipment and lab space for its departments of Marine Biology, Strauss Marine Geosciences, Hatter Marine Technologies, and Marine Civilizations.



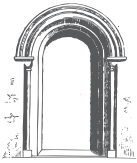
The Biomedical Discovery Tower promises to become a magnet for innovation and technology transfer.

The University of Haifa is leading the advancement of marine research and is home to the only marine graduate studies program in Israel.



The Biotechnology & Healthcare Portal

promises to have a transformative impact on life sciences research in Haifa, which is establishing itself as a biomedical hub. In April, the University signed a landmark agreement with the renowned Rambam Health Care Campus to build a 20-floor *Biomedical Discovery Tower* adjacent to the hospital. This partnership in academic research and practical medicine is supported by the Israeli government and will serve as an engine for economic and scientific growth for the north and for all of Israel in the fields of biotechnology and healthcare. The construction of the Tower is based on a joint capital campaign launched by the University and Rambam. (more details on page VI)



Engineering Portal

will expand the University's academic offerings into the important field of engineering, and extend its role in educating Israel's growing high tech sector. Under an academic agreement, the highly reputed engineering school, ORT Braude College in Karmiel, will become the University of Haifa's Faculty of Engineering. Braude's location in the Western Galilee will afford us a unique opportunity to introduce university-level education to students in the region. The driving forces behind this initiative are the Ministry of Education and the Council for Higher Education (VATAT).



Industrial Design Portal

will transform the NB School of Design (WIZO) in downtown Haifa into the University of Haifa's Faculty of Design and Architecture. The University's respected School of the Arts will compliment the new faculty and support interdisciplinary interaction. The Israeli government has committed to supplying bridge funds for this merger.

WIZO's expertise in diverse design disciplines will usher in a new era of education and innovation at the University of Haifa.



The China Portal

spans from Haifa to Shanghai, Beijing and Hangzhou. The University of Haifa partnered with East China Normal University (ECNU) in the fields of Statistics and Big Data, Neuroscience and Oceanographic Studies, to establish a joint research center in Shanghai.



The new ECNU-UH Joint Translational Science & Technology Research Institute building at the ECNU campus in Shanghai.

Another landmark partnership opening up in China will establish three joint Artificial Intelligence Technology Centers portals in Haifa, Beijing, and Hangzhou. The agreement was signed with Chinese conglomerate, Wahaha Group and the Institute of Automation, Chinese Academy of Sciences (CASIA).
(more details on page V)



University of Haifa partners with Wahaha Group and CASIA to establish three joint AI R&D centers.

Our ambitious plans to expand the University in size, scope of reach and areas of research, promise to have a transformative impact on the city of Haifa, and the entire northern region. The Multiversity of Haifa strategy, aimed at driving innovation and growth, attracting top talent and opening up educational opportunities for all, is encouraged and supported by the Israeli government. I look forward to advancing the next chapter of the University.

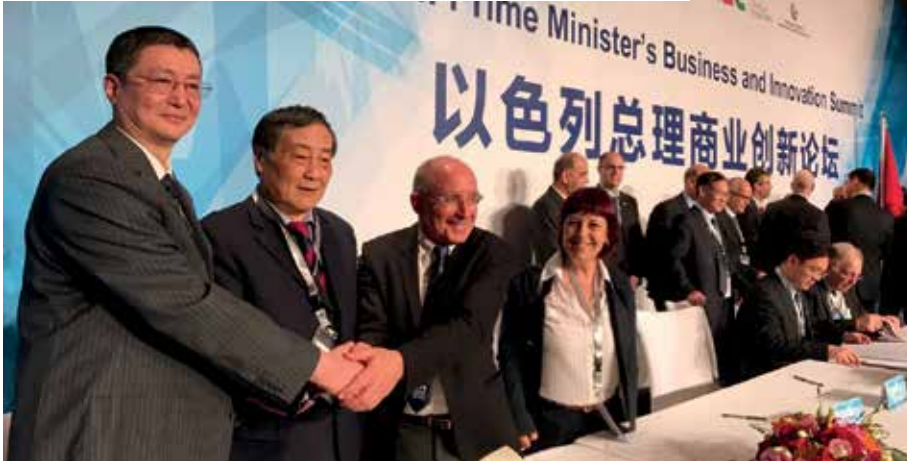
Sincerely,

Ron Robin
President



An academic merger with ORT Braude College will bring university-level education to the Galilee and expand the University's science offerings.

Taking Up the Lead in the Race for **Artificial Intelligence**



Chairman and CEO of Hangzhou Wahaha Group Co., Zong Qing Hou (second from left) and President Ron Robin (third left) at the signing ceremony in Beijing. The Wahaha Group is an umbrella of private companies and the largest beverage producer in China.

AI On March 20, 2017, the University of Haifa signed an unprecedented \$10 million agreement with the Chinese conglomerate, Hangzhou Wahaha Group Co. and the Institute of Automation, Chinese Academy of Sciences (CASIA), to establish three joint Artificial Intelligence Technology Centers in Haifa, Beijing, and Hangzhou.

The AI Centers will house R&D facilities to develop artificial intelligence research with potential for commercial applications in areas such as vision tracking via mobile devices, 3D imaging, chip technologies, biometric identification, image processing and big data for a variety of medical

applications. Teams from the University of Haifa and the Chinese Academy of Sciences will conduct research at all three institutes.

The agreement was signed in Beijing, in the presence of Prime Minister Benjamin Netanyahu who was in China on an official state visit, along with China's Minister of Science and Technology, Wan Gang, and Israel's Minister of Economy and Industry, Eli Cohen.

"We are honored to be entering into this agreement with Wahaha and the Institute of Automation at the Chinese Academy of Sciences," stated President Robin. "Not only does this partnership emphasize the world-class caliber of research at the University of Haifa, it also endorses our locally-engaged, globally-focused approach to academia. Such an ongoing collaboration has the potential to produce scientific discoveries that will benefit all of humanity."



Biomedical Discovery Tower

Rendering of the future Biomedical Discovery Tower at the Rambam Health Care Campus.

A MAGNET FOR INNOVATION & TECHNOLOGY TRANSFER

On April 19, 2017, the University of Haifa and Rambam Health Care Campus signed a landmark agreement embarking on a new academic and scientific collaboration.

Slated to be among the most advanced medical research institutes in the world, the 20-floor *Biomedical Discovery Tower* will bring together scientists and healthcare professionals from the region to create and foster an environment fueling investigation, discovery and innovation, advancing the prevention, diagnosis, and treatment of disease.

Six floors of the Tower will house University laboratories to support basic and applied research. Lab activities will engage in life sciences, public health, and pharmaceutical research. The Tower's close proximity

to the hospital will enable close collaborations between University scientists and Rambam clinicians, and provide access to advanced medical facilities.

At the ceremony, President Robin noted, "The new academic and scientific collaboration will position the University as a key partner in the rapidly growing life sciences research hub in Haifa, joining Rambam Hospital, the Technion-Israel Institute of Technology, and the Biomedical Science Park." The government of Israel supports the efforts of this ambitious project. The fundraising target for the University of Haifa's portion of this project is \$20 million.

For more information about this transformative project, please contact the Office of the Vice President for External Relations.



President Robin (front left), and Director General of Rambam Health Care Campus, Prof. Rafi Beyar (front right) at the signing ceremony, held in the presence of Health Minister Yaakov Litzman (top left), and Finance Minister, Moshe Kahlon (top right), a University of Haifa alumnus.

UNIVERSITY OF HAIFA

AT A GLANCE



Students

17,816	Student Body
8,264	Undergraduates
7,968	Master's students
1,405	Doctoral candidates
179	Teaching Certificates



Research

69	Research Centers and Institutes
3	Marine Sciences Satellites: <i>Israel Oceanographic and Limnological Research (IOLR), Kibbutz Sdot Yam, and Ashkelon</i>



International

≈ 300	Academic agreements with institutions in 40 countries
17	MA Programs (<i>taught in English</i>)
1	Doctorate Program (<i>China</i>) Expansion of University of Haifa-ECNU Cooperation (<i>planning stages</i>)



Building Projects

30,000 ft²	Expansion of the Herta and Paul Amir Faculty of Social Sciences
31,000 ft²	Faculty of Law
57,000 ft²	Faculty of Social Welfare and Health Sciences
23	Newly constructed Laboratories
500	New beds in Student Dormitories
2.8 mile	Cable Car connection between the University and Haifa Bay



Teaching

2 Campuses	Mount Carmel Campus Haifa Port Campus
China	Joint Translational Science & Technology Research Center with East China Normal University (ECNU) in Shanghai
7	Faculties
8	Schools
1,225	Research and Teaching Staff

Coming Soon...

2-Year BA	Fast-track in Humanities Back-to-back semester Program (<i>Fall, Spring and Summer</i>)
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The University of Haifa is committed to cultivating excellence in research and teaching within an environment of tolerance, openness and multiculturalism.



ADMINISTRATION

Chairman of the Board of Governors
Prof. Alfred Tauber

Chairman of the Executive Committee
Mr. Mooly Eden

President
Prof. Ron Robin

Rector
Prof. Gustavo Mesch

Vice Rector
Prof. Gad Barzilai

Vice President & Dean of Research
Prof. Ido Izhaki

Vice President & Director General
Mr. Baruch Marzan

*Vice President for Development
& External Relations*
Mr. Yariv Sultan





Jason Hochman in the Hecht Museum's storage facility researching artworks of the Ghez Collection procured by Dr. Oscar Ghez after the Second World War.

STUDENT SPOTLIGHT

“““

My study abroad year at the University of Haifa was a turning point for me. I shifted my study direction to investigating anti-Semitism in its historical and contemporary forms, and later made Aliyah to Israel and joined the IDF.

Jason Hochman

MA in Holocaust Studies, The Weiss-Livnat International MA Program, School of History

Nationality: United States/Israel

Background: BA in Judaic and Near Eastern Studies from the University of Massachusetts Amherst. Study Abroad alumnus of the University of Haifa (2010). Jason currently studies and works at the University as an undergraduate admissions coordinator for the International School.

Interest in Holocaust studies?

J.H. - “My study abroad year at the University of Haifa was a turning point for me. I shifted my study direction to investigating anti-Semitism in its historical and contemporary forms, and later made Aliyah to Israel and joined the IDF.

Serving as a non-commissioned officer for the COGAT (Coordinator of Government Activities in the Territories) unit in the West Bank really allowed me to immerse myself into Israeli life. For me, starting a new life in Israel and serving in the IDF was something that I felt I had to do, both for myself and for all those who never had the chance to do so.

Favorite course?

J.H. - “This year a new art curation course opened, led by art historian Dr. Rachel Perry. Like detectives we are tasked with tracing the origins of artworks donated to the Hecht Museum by Dr. Oscar Ghez. The process has been very exciting. Our work has taken us to other archival facilities, including the Ghetto Fighters’ Museum.”

Unique academic experiences?

J.H. - “I took part in an incredible two-week Meeting Point Summer Conference at the POLIN Museum of the History of Polish Jews in Warsaw, bringing together Israeli, Polish and German students to explore their shared history through lectures, workshops and in-depth museum tours. I also participated in the Student Curating Project and Seminar at the Atlit Detention Center, a project familiarizing students with conceptual and practical aspects in curating historical sites.”

Plans for the future?

J.H. - “I hope to pursue a career in curating aspects of the Holocaust.”



Stamps on the back of paintings are clues for researchers that trace the journey of the artwork from one place to another.



The International Center for Health, Law and Ethics:

Leading Global Initiatives in Medical Ethics Education

Should health care professionals hide a serious diagnosis from the patient's family members? Can embryonic stem cell research be permitted if it eventually saves lives? Should physician-assisted suicide be allowed in some situations?



Recent advances in medicine and technology are constantly pushing the ethical boundaries of modern healthcare. Today, health care professionals face more frequent and more complex bioethical dilemmas than their predecessors. From matters pertaining to genetic testing and organ transplants to the challenges of maintaining patient privacy, ethics education for medical students and practitioners is becoming a matter of paramount importance.

As early as 1996, researchers at The International Center for Health, Law and Ethics, under the direction of Prof. Amnon Carmi of the Faculty of Law, explored the deterioration phenomenon in the relationship between doctors and patients. Their findings pointed to a lack of proper study of ethics in medical schools as being central to this trend. "Following this discovery, the Director-General of UNESCO and the Rector of the University at the time, Prof. Aaron Ben-Ze'ev, established the UNESCO Chair in Bioethics at the University" explains Prof. Carmi, founding member and current head of the UNESCO Chair in Bioethics (Haifa). "We were charged with setting-up an International Network of Institutes

for Medical Ethics Training (NIMED), and reforming medical ethics education syllabi that would reflect the complexities of recent scientific developments."

Since its humble beginnings in 2001, NIMED has grown substantially to 144 units at universities in more than 70 countries across the world, including several that do not have diplomatic relations with Israel. All educational activities and training materials are coordinated and produced through The UNESCO Chair in Bioethics (Haifa).

The Haifa office also initiates an annual global bioethics conference. This year marked its 12th year. Held in March, the 12th World Conference of Bioethics, Medical Ethics & Health Law attracted over 500 experts, including ethicists, researchers, jurists, physicians and medical students from nearly 60 countries.

In his opening address, Prof. Ketan Desai, President of the World Medical Association (WMA) stated, "For the World Medical Association, it is imperative to be truly global in the larger interest of mankind and the profession. To that extent, the UNESCO Chair of Bioethics Conference

Stay tuned for details on the **2017 World Bioethics Day** Coming up in **October**

Topic:
Human Dignity and Human Rights



Prof. Amnon Carmi

From Haifa to the World:

The UNESCO Chair in Bioethics (Haifa) established an international network of institutes for medical ethics training in 144 universities, inaugurated an International Forum of Teachers numbering over 700, and launched a World Bioethics Day celebrated by over 80 universities.

Network of Institutes for Medical Ethics Training under the auspices of the UNESCO Chair in Bioethics (Haifa)



offers a great forum for truly meaningful and purposive international debates.”

Other major milestones achieved this past year include a publication of the Casebook on Bioethics for Judges, produced in collaboration with the International Organization for Judicial Training, and launching a Youth Children Bioethics Education Project in Italy and Israel.

For information about how you can support activities at The International Center for Health, Law and Ethics please contact the Office of the Vice President for External Relations and Resource Development.

The International Center for Health, Law and Ethics was established at the University of Haifa in 1995. The Center operates 11 departments focusing on the advancement of principles and standards in health ethics education as well as ethical aspects for professionals in the fields of psychology, mental health and public health communications. A board of fifteen members chaired by Prof. Eliezer Rivlin and directed by Prof. Carmi governs the Center. Prof. Shai Linn, the former Dean of the Faculty of Social Welfare and Health Sciences, currently heads the Israel Haifa Unit of The UNESCO Chair in Bioethics (Haifa).

Unit Heads from universities around the world gather at the 12th World Conference of Bioethics, Medical Ethics & Health Law held in Cyprus from March 21-23, 2017, attended by over 500 leading ethicists, researchers, jurists and physicians.



Not Your Typical Advocate For Israel

Lian Najami - Political Science '16

“ ”

The best way to build and sustain peace is to dispel stereotypes from a young age through educational initiatives.

She's only 22, but Lian Najami has already accomplished more than many people achieve in a lifetime. At the age of 12, she began volunteering at her local community center and by her 15th birthday she founded her first start-up. Fluent in five languages, Lian was recently a featured speaker at the Forbes Israel 30 Under 30 Summit. Currently a Congressional Fellow in the US Senate and a regular spokesperson for Israel on US campuses, she dreams of contributing to regional peace through an innovative social startup.



I explain to students that the reality is complex. As an Arab Israeli, I tell them that they can be both pro-Israel and pro-Palestinian.

Lian graduated in 2016. In addition to being an outstanding scholar she was also active in the Jewish-Arab Community Leadership Program, a flagship project established by the German Friends the University of Haifa.

A life-size poster of Lian used in last year's undergraduate open-house campaign featuring the University's top achievers and innovators.



Why did you choose to study at the University of Haifa?

LN. - I grew up in the culturally mixed Haifa neighborhood of Ein Hayam. My best friend, Rita, was a Russian Jew. At a young age, I started volunteering at our neighborhood community center and was impressed by the number of University of Haifa students involved in community engagement projects. This spirit of volunteerism motivated me to become part of such an embracing community. I also chose the University because its School of Political Science is considered the best in Israel.

Fondest memories at the University of Haifa

LN. - I focused on American politics and had the opportunity to study with some of the leading experts in Israel, including Dr. Israel Waisman-Manor. I qualified to fast track my degree and was honored to serve as a teaching assistant during my senior year. Many of the students were my age or older! I am very grateful for the faith my professors placed in me. Today, as a congressional fellow in the US Senate, I feel well prepared to take in the intricate web of American politics.

How did you end up in the US Senate?

LN. - A number of related events led to the fellowship placement. Last year, Forbes invited me to speak at the Forbes Israel 30 Under 30 Summit about my experiences as a young entrepreneur in Junior Achievement Worldwide's Young Entrepreneurs Program. Being a featured speaker provided me with plenty of networking opportunities. After the Summit, I received the Lantos-Humanity in Action Congressional Fellowship. The fellowship brings together students from around the world to intern at the US Congress. Today I am working with Senator Brian Schatz from the State of Hawaii on foreign policy. The work is dynamic and very challenging. It has been a thrill to be able to sit in on congressional hearings!

How did you become involved in public speaking and Israel advocacy?

LN. - I was first asked to speak to international delegations as a high schooler at Leo Baeck's youth and co-existence projects. Since then I have spoken at the University of Haifa's 40th Board of Governors Meeting, and at functions organized by Combined Jewish Philanthropies (CJP) and Israel Campus Roundtables at campuses across the Boston area, including Williams College, Tufts University, UMass Amherst, Suffolk University, Harvard Kennedy School, Northeastern University, and Wellesley College. These events enabled me to reach out to students who have no connection to Israeli or Palestinian issues, yet think they must take a side. I try to explain that the reality is very complex. As an Arab Israeli, I tell them that they can be both pro-Israel and pro-Palestinian.

What are some of the myths you have encountered about Israel?

LN. - A large number of people are ignorant about the non-Jewish community living in Israel, which comprises 25% of the population. I try to raise awareness about this demographic reality. **The Boycott Divestment and Sanctions (BDS) movement claims that it is helping Palestinians and Arab Israelis. I say 'thanks, but no thanks.' What BDS is actually doing is simultaneously damaging Israel and Palestine, and when you harm Israel, you are hurting all of its citizens. Israel has done nothing but help shape the strong person I am and provided me with the help I needed to fully succeed in the Middle East and in life.**

What are your plans for the future?

LN. - I will be moving to Boston in the summer to take part in the 'Our Generation Speaks' fellowship program at Brandeis University's Heller School in partnership with MassChallenge. 'Our Generation Speaks' brings together young Israeli and Palestinian change agents who look to build shared prosperity for the region. At the end of the fellowship, we will launch a social startup, which I plan to develop and expand. I also intend to keep on raising awareness about minority groups in Israel and bring my different perspective of Israel as a non-Jew living in the Jewish State to the international community through speaking tours in different countries.

HIGHEST HONORS

Meet the University of Haifa's 2017 Honorary Doctorate Conferees

Individuals who are making exceptional contributions to diverse areas of education, science, justice, society, culture and the State of Israel

Prof. Ruth Arnon - ISRAEL



Prof. Arnon is a world-renowned biochemist from the Weizmann Institute of Science with a specialty in immunology, and a 2001 Israel Prize recipient. Her groundbreaking work has contributed to the fields of vaccine development, cancer research and the study of parasitic diseases, and led to the development of Copaxone®, used in the treatment of Multiple Sclerosis. She has served as President of the Israel Academy of Sciences and Humanities (2010–2015), Vice-President of the Weizmann Institute, President of the European Federation of Immunological Societies (EFIS), and Secretary-General of the International Union of Immunological Societies (IUIS).

Prof. Hossam Haick - ISRAEL



Prof. Haick is a chemical engineering professor at Technion-Israel Institute of Technology, heading the Laboratory for Nanomaterial Based Devices. He is responsible for the development of the artificially intelligent nanoarray technology to detect diseases non-invasively. His many accolades include the Marie Curie Excellence Grant, the ERC grant and the Bill and Melinda Gates Foundation Award. His work combines cutting-edge basic and applied research, turning scientific ideas into viable products.

Ms. Keren Leibovitch - ISRAEL

Ms. Leibovitch is an Israeli paralympic swimming champion. She is a three-time world champion, a five-time European champion, a holder of three world records (for the 100-meter and 200-meter backstroke and the 100-meter freestyle), and a seven-time Paralympic medalist (4 of which are gold medals). She is a dedicated advocate for disabled sports, raising public awareness and support for disabled athletes. She has received national acclaim for her athletic achievements and was given the honor of lighting the ceremonial Independence Day torch in 2004.



Prof. Deborah E. Lipstadt - USA

Prof. Lipstadt is an internationally renowned scholar and leader in the fight against the phenomenon of Holocaust denial, currently serving as a professor of modern Jewish history and Holocaust studies at Emory University. She was appointed consultant to the US Commission on International Religious Freedom (USCIRF) by the US Secretary of State. Her book, ***History on Trial: My Day in Court with a Holocaust Denier*** was made into a movie in 2016, depicting her trial with Penguin books against Holocaust denier David Irving.



Mrs. Sonja Lahnstein-Kandel - GERMANY

Mrs. Lahnstein-Kandel is a respected promoter of civic rights, tolerance and understanding in Germany and a longstanding friend of Israel. She devotes much of her time to nurturing and supporting minorities, especially with respect to education issues and the advancement of women. In her roles as the Vice Chairwoman of the Board of Governors and President of the German Friends Association, Mrs. Lahnstein-Kandel has been instrumental in promoting the University of Haifa in Europe and securing major gifts for coexistence programs, including the University's flagship Jewish-Arab Community Leadership Program, as well as the Werner-Otto Scholarship Program supporting Arab women pursuing graduate degrees.



Mr. Sandor Frankel - USA



Mr. Frankel is a renowned attorney who has been engaged in philanthropic activity for many years in his role as one of the four Trustees of the Leona M. and Harry B. Helmsley Charitable Trust. In this position, he has been instrumental in directing funds to entities working within the State of Israel, making it possible for Israeli institutions of higher learning and research develop impactful, cutting-edge research. Helmsley Charitable Trust funds given to the University of Haifa were directed to the development of marine research under the auspices of the Mediterranean Sea Research Center of Israel (MERC), under the leadership of the University.

Prof. Barbra Kirshenblatt-Gimblett - USA

Prof. Kirshenblatt-Gimblett is a world-renowned scholar of performance and Jewish studies and museologist who has made significant contributions to the research of the culture, folklore and heritage of East European Jewry. Her interdisciplinary innovative body of work has charted new paths in traditional research areas such as anthropology, folklore, and Jewish studies. Her research has significantly contributed to the vibrant theoretical discussion prevalent in the last decades in the field of cultural heritage studies.



Dr. Harvey Scher - ISRAEL

Dr. Scher is a professor at the Weizmann Institute of Science and a world leader in physics and geophysics whose research has led to groundbreaking theories in Israel and the United States. His breakthrough discovery of anomalous transport and unique scientific contributions to percolation theory and fractal physics have been a source of inspiration in research and teaching alike for generations of scientists and engineers.



Prof. Klaus M. Schwab - SWITZERLAND

Engineer and economist, Prof. Schwab is the illustrious founder and executive chairman of the World Economic Forum. The Forum, established in 1971, engages the world's foremost business, political, academic, and social leaders in the shaping of global, regional, and industry agendas. Under Prof. Schwab's leadership the World Economic Forum has become one of the most important and influential international organizations in the world.



Ambassador Daniel B. Shapiro - USA



Mr. Shapiro is an expert on Middle East affairs, dedicating most of his adult life to deepening the relationship between Israel and the US. He served as a member of the US National Security Council as the Senior Director for Middle East and North Africa, and most recently as the US Ambassador to Israel (2011-2017). Mr. Shapiro's efforts have led to the promotion of American aid to Israel and thus contributed to Israel's security.

The University of Haifa Salutes Outstanding Service

On the occasion of the University of Haifa's 45th festive Board of Governors Meeting, the University is paying tribute to two exemplary individuals, Mrs. Arlette Adler and Mr. Eliezer Rafaeli, whose dedication and hard work have made important contributions to Israeli society and the University community in particular. They will be honored for their outstanding service at two separate ceremonies on Thursday, June 8.



MRS. ARLETTE ADLER, ISRAEL **Carmel Award of Merit Recipient**

Arlette Adler's ties to the University can be traced back to the 1970's. She will be presented with the University of Haifa's Carmel Award of Merit in recognition of her efforts to narrow social gaps through higher education, by co-founding and directing the Unit for Bridging Social Gaps at the University, and for her tireless work promoting gender equality, through the 'KIDMA Project for the

Advancement of Women in Israel', which she established in 1984. The "Ron Adler Scholarship Fund" for individuals who completed meaningful service in the IDF, which she founded in memory of her son Ron, has supported hundreds of students.



Eliezer Rafaeli speaking at the cornerstone laying ceremony in 1965.

MR. ELIEZER RAFAELI **University Chancellor and** **Honorary Life Member of the** **Board of Governors**

Eliezer Rafaeli became the first President of the University of Haifa in 1972. On the occasion of his 90th birthday, he will be honored for his distinguished service and contributions in the establishment of the University. His tireless efforts in recruiting faculty members, founding the first academic departments, and planning



and inaugurating the library, set the University's standing as a leading Israeli academic institute. Mr. Rafaeli is also being recognized for his notable contributions to Israeli society and the promotion of coexistence in particular, as the founder of the Jewish-Arab Center and the Unit for Bridging Social Gaps, and for his many achievements as the first President and Director General of the University.

Eliezer Rafaeli was awarded an Honorary Doctorate from the University of Haifa in 2003.

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SUPPORT HAIFA SCHOLARS

Student scholarships represent a key investment in Israel's academic, economic and security future.

Since its founding 45 years ago the University has been dedicated to making the goal of higher education accessible to all.

Your help can make possible the academic and professional dreams of talented and committed students without financial resources.

Scholarships help transform lives.

Please contact the Office of the Vice President for External Affairs
and Resource Development for more information:
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