

LIVE IN ISRAEL, STUDY IN ENGLISH

MSc MACHINE LEARNING & DATA SCIENCE

2026-2027



EFI ARAZI SCHOOL OF COMPUTER SCIENCE

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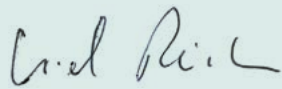
**RRIS GLOBAL
VILLAGE**

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ACADEMIC CALENDAR

Reichman University was founded with the aim of nurturing future leaders. In 30 years, we have created a pioneering and innovative academic center. Our students are imbued with a commitment to excellence and original thinking.

'The university of the future,' as we see it, has to prepare its students for a constantly changing world by being able to innovate skillfully, to dare, and to initiate. We believe that the knowledge and tools acquired at Reichman University support personal and professional goal fulfillment and enable our graduates to tackle the challenges of our global reality."



Prof. Uriel Reichman

Founding President and Chairperson of the Board of Directors, Reichman University





PROGRAM

The Efi Arazi School of Computer Science has built an innovative and intensive MSc program in Machine Learning & Data Science, aimed at providing a deep theoretical and practical understanding of machine learning and data-driven methods. The program will address foundations and techniques, as well as application domains and use cases.

In recent years, data science methodologies have become the bonding language and foundational tools of scientific and industrial research. Machine learning and data-driven methods have developed considerably, and now penetrate almost all areas of modern life. This trend has deeply affected computer science, medical science, life sciences, and biology, as well as finance, chemistry, physics, and social sciences. Gathering, analyzing, and interpreting data using modern, data-driven, and machine learning methods is now part of the daily routine in many parts of academia and industry alike. Clearly, the vision of a data-driven world presents many exciting challenges to data experts. These include developing algorithms and methods to deal with data, exploiting new cloud-based platforms, deploying and taking advantage of software solutions and foundation models, and handling information diversity at scale, as well as communicating, interpreting, and leveraging the results obtained through analysis pipelines and processes.

To answer the call of the growing market demand for data scientists and AI experts, the Efi Arazi School of Computer Science is offering a unique MSc program for students with a strong quantitative background and education. Students will attend frontal lectures, recitations, and seminars, and will lead and participate in projects of different scales. Through these projects, students will gain hands-on experience in various data science and machine learning domains. Project participation will be in collaboration with academia, both internally and externally, and with industry and the public sector.





The conducive learning environment at the Efi Arazi School of Computer Science provides a community, as well as team-up opportunities, for students, scientists, and researchers from the entire scientific spectrum. The program will expose our students to industry and other activities that parallel their academic training.

Upon completing our MSc program, our graduates will have gained a strong background in the science and technologies that form the basis of the growing activity in AI and its applications, including data analysis, data collection and processing, and modeling. They will have expertise in programming for data science using Python, including the application of programming skills in statistical analysis and machine learning. Graduates will also acquire deeper specialization in data science, through the program's courses, which include Neural Networks and Deep Learning, Statistics, Natural Language Processing, Reinforcement Learning, Infrastructure courses, Big Data and Databases, Optimization, Scientific Computing, Modern Bioinformatics and Environmental Informatics, Computer Graphics and Vision, Numerical Analysis, and Biomedical Data Science.

The program also opens a new path for students with a strong mathematical background and programming experience, but without a Computer Science degree. It will provide these students with the opportunity to become skilled and knowledgeable data scientists. (Candidates without Computer Science degrees will need to successfully complete Computer Science and possibly advanced mathematics preparatory courses.)

Ultimately, Reichman University's Machine Learning & Data Science program, at the School of Computer Science, will endow our students with the knowledge, market understanding, and scientific and technical skills required to work creatively and effectively in these domains.



CURRICULUM

Students are required to take 36 credits: 21 credits of mandatory core courses including a final project, three credits of mandatory electives, and 12 credits from a list of general computer science electives.

Any student with an insufficient background in either computer science or math will be required to successfully complete additional preparatory courses, to be determined by the Admissions Committee.

All mandatory courses, and some elective courses, are taught in English. Some elective courses may be taught only in Hebrew.

● MANDATORY CORE COURSES (16 credits)

- Statistics & Data Analysis
- Intro to Machine Learning
- Intro to Neural Networks & Deep Learning
- Advanced Machine Learning
- One of the following advanced courses:
 - Advanced Statistics / Information Theory
 - Advanced Algorithms

● ELECTIVE COURSES (15 credits)

Students are required to take at least three credits from the highlighted courses below. It is possible, and even recommended, to take more.

MACHINE LEARNING AND DEEP LEARNING

- Advanced Topics in Deep Learning
- Recommendation Systems
- Data Streaming & Online Algorithms
- Advanced Topics in Machine Learning
- Unsupervised Learning Methods
- Intro to Reinforcement Learning

BIG DATA AND STATISTICS

- Cloud Computing
- Advanced Big Data Platforms
- Application of Machine Learning on Big Data Platforms
- Advanced Topics in Statistics & Data Analysis

APPLIED MACHINE LEARNING AND DATA SCIENCE

- Scientific Computing
- Bioinformatics
- Numerical Analysis
- Computer Graphics
- Computer Vision
- Natural Language Processing
- Image Processing
- Topics in Data Mining & Genomics

INFRASTRUCTURE AND COMPUTER SCIENCE GENERAL COURSES

- Distributed Algorithms
- Cryptography
- Advanced Cryptography: Secure Computation
- Network Security
- Advanced Algorithms

● PREPARATORY COURSES (IF REQUIRED)

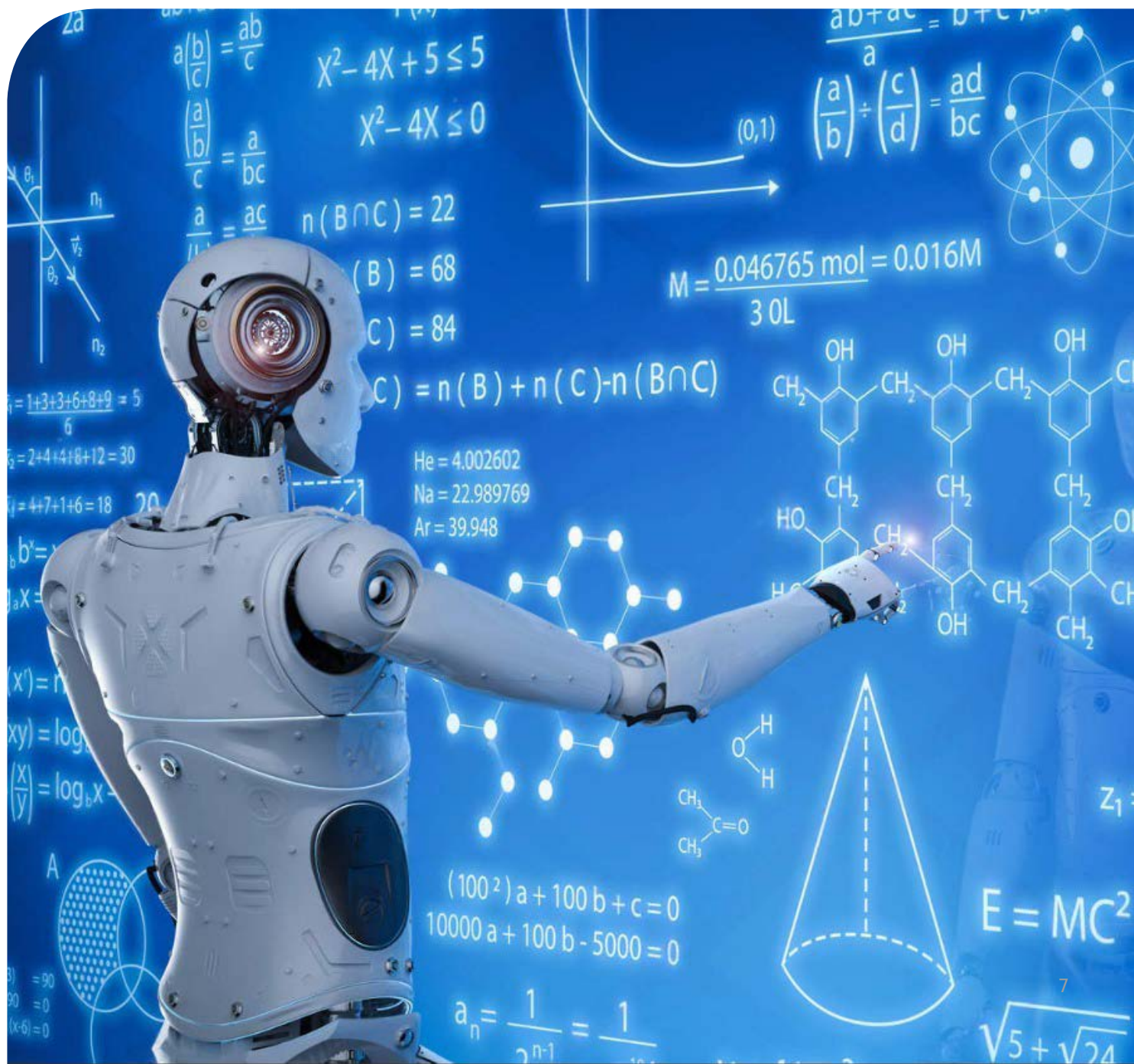
- Intro to Computer Science & Programming in Python
- Intro to Operating Systems
- Data Structures, Algorithms & Complexity
- Linear Algebra for Data Science
- Calculus
- Intro to Probability Theory

● MANDATORY FINAL PROJECT (5 credits)

- Final project: Independent research and development with industry and/or academic collaboration. Can be extended to a thesis.

Curriculum is subject to change.

Reichman University reserves the right to cancel, alter, or expand the academic programs offered.





REICHMAN UNIVERSITY FAST FACTS



Israel's first and only
private university



Over 2,500

Raphael Recanati International
School students from more than
90 countries make up
1/3 of the Reichman University
student body



Over **40,000**
graduates worldwide



The Israeli Council for Higher
Education granted Reichman
University permission to confer
doctoral degrees



Over **48 research
institutes**

www.runi.ac.il/research-institutes



Reichman University
created new, academic
**interdisciplinary
concepts** in the fields
of entrepreneurship and
counter-terrorism models
that are being implemented
around the world



Reichman University's
Alumni Association,
forms a professional and social
alumni community that promotes
networking from different
countries, and strengthens the
pride and sense of belonging to
Reichman University



The Career Center
aims to assist alumni in
integrating into the professional
market, and connect them with
employers seeking to recruit
suitable candidates



22 unicorns founded
by Reichman University



Ranked **No.1** in Israel
for our treatment of
IDF reservists



Over 400
lone soldiers studying
for full degrees



REICHMAN UNIVERSITY: THE MOST INTERNATIONAL UNIVERSITY IN ISRAEL

APPLICATIONS, ADMISSIONS, AND TUITION

● APPLICATION PERIOD

The application period for the 2026–2027 academic year is **November 16, 2025 - August 31, 2026**.

The application period for students required to take preparatory courses ends on **June 30, 2026**.

Due to the competitive nature of the admissions process, we recommend that applicants prepare their application well in advance of the deadlines. Reichman University reserves the right to impose stricter criteria upon applicants during the late application period or upon applicants who submit material late. Preference will be given to applicants who submit all required material during the regular application period.

● CRITERIA FOR CONSIDERATION BY THE ADMISSIONS COMMITTEE

- Completed undergraduate degree from a recognized academic institution
- One of the following:
 - BSc in Computer Science, with a GPA of at least 85%
 - BSc in other fields, with a GPA of at least 90%
- Non-Computer Science students will be required to take the following three preparatory classes: Introduction to Computer Science and Programming in Python; Data Structures Algorithms and Complexity; Introduction to Operating Systems and Databases.
- Students with an insufficient quantitative background will be required to complete the following prerequisite courses: Linear Algebra for Data Science; Calculus A/B; Probability Theory.
- The academic program of the Raphael Recanati International School is taught entirely in English. Graduates of schools in which English was not the primary language of instruction are required to pass the Test of English as a Foreign Language (TOEFL) or an equivalent test, such as the International English Language Testing System (IELTS) or the Israel Psychometric Examination.

TOEFL www.toefl.org

IELTS www.ielts.org

● ONLINE APPLICATION

Please note your application must include:

- Official transcripts of previous academic undergraduate and graduate studies. Transcripts must bear the official stamp of the issuing institution. If you do not send the original transcript, scanned photocopies of the original documents will be accepted if properly notarized.*
- Copy of passport or identity card
- Curriculum Vitae (CV)

Note that candidates may be interviewed.

**An official, notarized English translation must be submitted for all transcripts not originally issued in English or Hebrew.*

● TUITION & FEES

- The application fee is **NIS 300** (non-refundable).
- The down payment is **NIS 8,500**. Applicants must pay this fee to secure their place in the program after being accepted. Once the down payment has been received the applicant's place is secured and confirmed.
- The tuition for the entire MSc in Machine Learning & Data Science is **NIS 81,900**. Prerequisite courses are charged separately, based on the specific course plan for each student.

If payment is in US Dollars, the value in shekels will be determined according to the exchange rate on the day that payment is received.

Reichman University reserves the right to change all tuition and fee rates without prior notice.

APPLY ONLINE AT

<https://forms.runi.ac.il/#/Public/Registration?lang=en&form=MA>



SCHOLARSHIPS

● STUDENT AID FOR US CITIZENS

US Citizens Free Application for Federal Student Loans (FAFSA)

US citizens are eligible to apply to borrow FAFSA Stafford loans (as part of the Direct Loans Programs) and/or Sallie Mae loans. The deadline to apply for loans for the 2026-2027 academic year is **April 1st, 2027**.

Our school code is **G40703**.

School name: Raphael Recanati International School

For further information and to start the process, please email Rina Haller in our US office: rina@aforu.org

● MASA SCHOLASHIPS

Masa is the global leader in immersive international career development and leadership experiences in Israel for young Jewish adults from around the world. Through a variety of long-term programs in Israel, Masa provides meaningful, enriching experiences to young Jews from various countries, backgrounds, levels of education, and fields.

Jewish tourists between the ages of 18-30 who have not been in Israel on a prior long-term program are eligible for grants and scholarships through the Masa project. Please note: Masa is an independent initiative, and therefore, its criteria for evaluating funding requests may differ from those used to evaluate requests for Raphael Recanati International School scholarships. Once you make Aliyah, you are not eligible for this grant, so please check this out before making Aliyah! More information and application forms at:

www.masaisrael.org



● STUDENT AID FOR CANADIANS

Students Assistance Program (SAP)

Canadian students interested in loans and grants from the Canadian Government for all provinces can find information online at:

<https://www.canada.ca/en/services/benefits/education/student-aid.html>

● OTHER SCHOLARSHIP OPPORTUNITIES

Various sources in the Jewish and general communities provide financial aid and scholarships to students pursuing academic degrees in Israel. We recommend that applicants check with their communities, non-profit organizations, and local Jewish federations and schools about the availability of such scholarships and the criteria. Many countries also have government-sponsored loan programs for students. Check with local government representatives for details.

See the following list for some of the many organizations that offer scholarships based on various criteria.

GRANT FOR NEW IMMIGRANTS

The State of Israel offers financial assistance for graduate school tuition to new immigrants under the age of 30, provided the immigrant does not already have a graduate degree from abroad and the program is recognized by the Student Authority. Students must begin their graduate studies within three years of their Aliyah date (not including army service), in order to be eligible for this assistance.

https://www.gov.il/en/departments/topics/student_authority/govil-landing-page

HESEG FOUNDATION FOR FORMER LONE SOLDIERS

HESEG Foundation | A philanthropic foundation
Rothschild Boulevard 46, Tel Aviv-Yafo, Israel (Hebrew)

<https://www.heseg.com/>

JEWISH FEDERATIONS OF NORTH AMERICA (JFNA)

www.jewishfederations.org

TELFED

Awards grants for students from South Africa. Contact the Jewish community of South Africa: www.telfed.org.il

For full details about scholarships:

<https://www.runi.ac.il/en/schools/rris/admissions/graduate/financial-aid-and-scholarships/>

For other scholarship possibilities, contact our Financial Aid Managers:

rris.financialaid@runi.ac.il



WHY REICHMAN UNIVERSITY ?



Reichman University offers a wide range of extracurricular activities: sports, debate club, Model UN, Israel advocacy, JLIC-RRIS Friday night dinners, shiurim, mincha club, choir, band, and much more.



Reichman University is one of the most prestigious universities in Israel. Employers seek Reichman University graduates because they come with practical tools and hit the ground running. Reichman University operates a Career Development Center that aims to prepare students and alumni for the job market, and to provide them with the tools to find suitable employment both before and after they graduate.



The Raphael Recanati International School takes very special care of its students. We are the largest academic absorption center in the country. We are especially proud that we are home to more than 400 lone soldiers, who are currently studying here.



Networking is the name of the game! To date, there are more than 40,000 Reichman University graduates from over 90 countries. This gives students a unique opportunity to meet people from different backgrounds and learn about other nations and cultures, and to establish friendships that last a lifetime. This also creates a global network that provides our graduates with an advantage throughout their professional career.



Our small classes create a more intimate learning setting, which allows students to get to know each other and the staff. Our philosophy is that our students are our partners.



We are the first non-government-subsidized academic institution to grant doctoral degrees.



One third of Reichman University students are international, making us the most international university in Israel for full-degree students. Israeli students serve as counselors for first-year students in order to help them find their way around and get to know the system.



In a nationwide survey conducted by Israel's Council for Higher Education, Reichman University was ranked number one in student satisfaction for quality teaching for four consecutive years.

● VISA AND STATUS ASSISTANCE

Students are responsible for clarifying and establishing their status in Israel, and are welcome to turn to the Raphael Recanati International School staff for advice and assistance. Before commencing studies, all students must clarify their status and eligibility for a student visa (A-2) or Israeli citizenship with the Israeli embassy or consulate in their country of origin.

A student visa should be obtained in advance, in the student's country of origin. International students who are children of an Israeli parent must settle all matters, such as whether they must obtain an Israeli passport and deferment of military service, with the nearest Israeli embassy or consulate.

For students considering making Aliyah (immigrating to Israel): www.jewishagency.org/Aliyah/, or from North America: www.nbn.org.il

● CAREER CENTER

The Career Center strives to guide and prepare students to enter the working world and help them navigate their career paths and find employment opportunities through counseling, placement, and informational services. The Center's services are tailored to meet students' and graduates' specific needs and challenges in each of Reichman University's schools, according to their relevant market.

These services include personal career counseling and assistance (including one-on-one LinkedIn sessions), introducing AI-relevant tools, lectures and workshops on job-seeking strategies, resume enhancement, interview prep, etc. In addition, the Career Center provides recruitment and networking opportunities such as job fairs, career weeks, and potential employer meetings. The Career Center also maintains an updated list of hundreds of job openings in Israel for students and graduates.

For more information:

www.runi.ac.il/en/career-center/

www.facebook.com/groups/710557439037233/

www.linkedin.com/groups/1862147/

● HEALTH INSURANCE

All Reichman University students are required to have comprehensive health insurance coverage throughout the entire period of their studies. Israeli residents, including new immigrants, receive national health insurance for a low monthly fee in accordance with the country's health insurance legislation. International students who are not covered by Israel's national health insurance (Bituach Leumi) should purchase their own health insurance policy to cover their medical needs while in Israel or purchase the **UMS HAREL YEDIDIM** insurance policy for international students, offered by Reichman University.

Our special arrangement with the HAREL YEDIDIM insurance company provides comprehensive health coverage for NIS 4,970* per academic year, which will be charged at the beginning of each year.

In order to have continuous coverage, the policy is automatically renewed from one academic year to the next until the scheduled end of the program unless students notify the school in writing that they wish to cancel.

** Rates are subject to change according to insurance company rate fluctuations.*





THE RRIS GLOBAL VILLAGE 2025-2026

30% OF THE STUDENT POPULATION
OF REICHMAN UNIVERSITY ARE
INTERNATIONAL STUDENTS.

RRIS IS THE LARGEST ACADEMIC
ABSORPTION CENTER IN ISRAEL.

31%

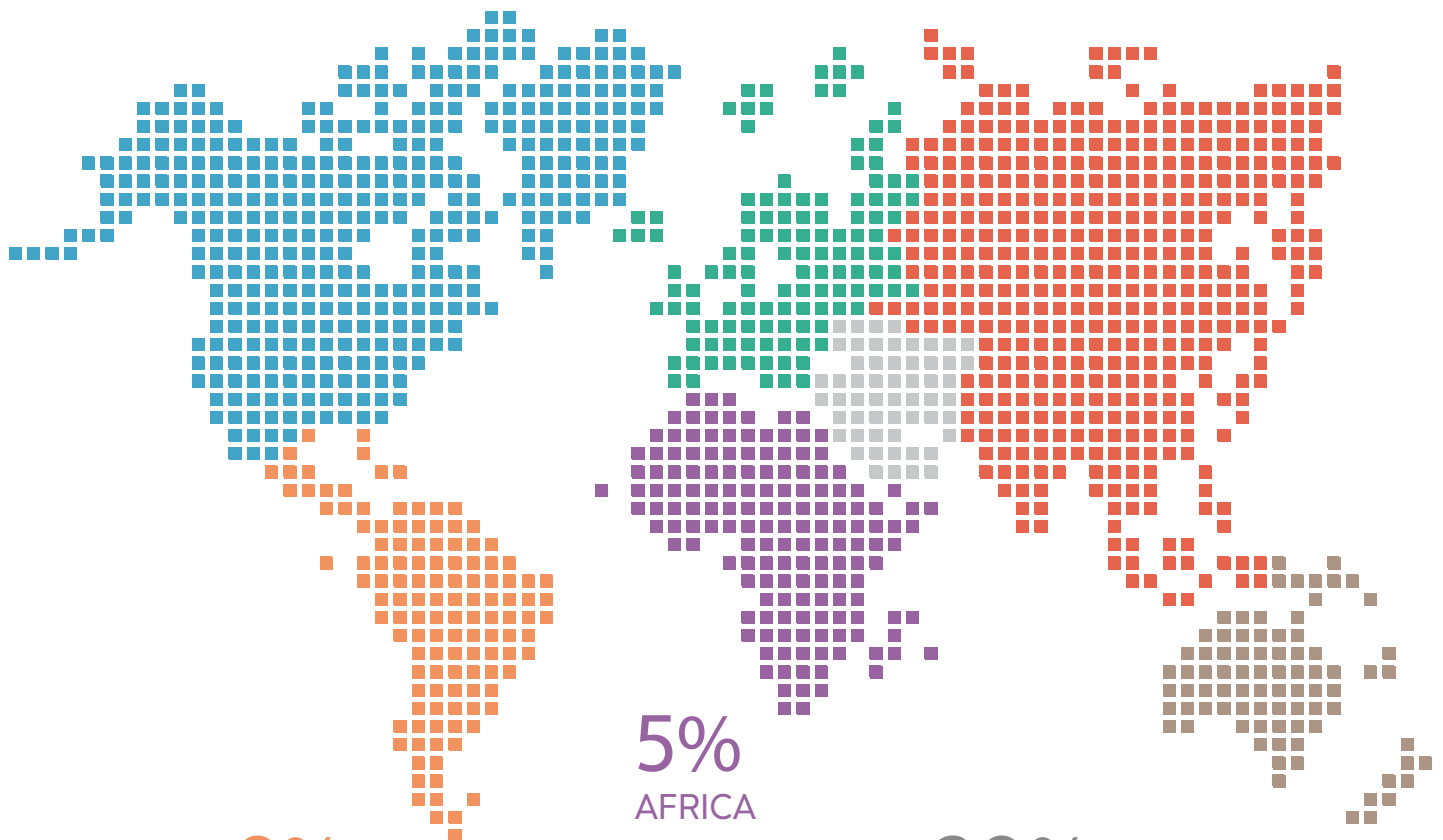
NORTH AMERICA

24%

EUROPE

2%

ASIA & OCEANIA



8%

LATIN
AMERICA

5%

AFRICA

30%

ISRAEL &
THE MIDDLE EAST



ACADEMIC CALENDAR

2026-2027 ה'תשפ"ז

Orientation week	Oct 11-16, 2026
Fall semester begins	Oct 18, 2026
Memorial Day for Yitzchak Rabin Z"L	Oct 22, 2026
Hanukkah vacation	Dec 6, 2026
Fall semester ends	Jan 15, 2027
Fall exams begin	Jan 17, 2027
Spring semester begins	Mar 7, 2027
Purim vacation	Mar 23, 2027
Passover vacation	Apr 18-30, 2027
Studies resume	May 2, 2027
Eve of Holocaust Memorial Day	May 3, 2027
Holocaust Memorial Day ceremony	May 4, 2027
Israel Memorial Day ceremony	May 10, 2027
Eve of Israel Memorial Day	May 10, 2027
Israel Memorial Day	May 11, 2027
Israel Independence Day	May 12, 2027
Memorial Day ceremony for Ethiopian Jews who perished on their way to Israel	Jun 3, 2027
Shavuot vacation	Jun 10-11, 2027
Graduation ceremony (2026)	TBD
Honorary Fellowship & Outstanding Researchers and Lecturers ceremony	TBD
Students' Day	TBD
Spring semester ends	Jun 18, 2027
Spring exams begin	Jun 20, 2027
Summer semester begins	Jul 25, 2027
Summer semester ends	Sep 10, 2027
Summer exams begin	Sep 12, 2027

* There may be further changes and updates depending on campus needs

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Production: Or Rotlevy, Liron Tzour

Editor: Amy Cohanin

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Raphael Recanati
International School

ISRAEL

The Raphael Recanati International
School
Reichman University

PO Box 167, Herzliya, Israel 461010
Attention: MA Registrar
☎ +972 9 960 2700, ☎ +972 54 562 8121
rris.registrar@runi.ac.il

NORTH AMERICA

Reichman University
c/o American Friends of Reichman University

156 West 56th Street 3rd Floor, New York, NY 10019
☎ +1 212-213-5962, +1 212-213-5961
rris.us@runi.ac.il

www.rris.runi.ac.il

For more information about the program
Scan here >>



Submit your application online >>

<https://forms.runi.ac.il/#/Public/Registration?lang=en&form=MA>

