

Statistics

Program Description

During the last decade there has been a dramatic increase in the size and complexity of data collected in industry, academia, and government. This "data deluge" has had wide-ranging effects throughout society and has given rise to the new field of data science, of which statistics is a core component. The University of Haifa's International Master of Arts program in Statistics, inaugurated in 2017, equips students with the skills required to design quantitative studies and to analyze and draw meaningful conclusions from data. The program is geared toward students from universities and colleges in Israel and abroad who have a Bachelor's degree in Statistics or a related field such as Mathematics, Computer Science, or Engineering.

The program is dedicated to providing students with a rigorous, modern, and up-to-date education in Statistics. You will be trained to analyze and draw meaningful conclusions from data collected in a variety of application areas. This includes clinical trials, finance, genomics, social media, and web/mobile applications. The ability to reason with data is a skill that is becoming ever more important in the current age of Big Data, Data Science, and the Digital Economy.

The cutting-edge curriculum emphasizes computational know-how and the fundamental and core themes of the statistical sciences. At the same time, it is also mathematically rigorous and challenging. The program will prepare you for further academic studies as well as for data-related leadership roles in various industries including High-Tech, E-commerce, Healthcare, Research and Development, and more.

The one-year program is taught in English over three consecutive semesters from October through September. Students wishing to pursue the thesis track will need to submit a research thesis within one year of completing their coursework, which may require remaining at the university for one or two additional semesters. Upon completion of the program, students will be awarded a Master of Arts in Statistics.

Highlighted Courses*

Probability

Statistical Inference

Algorithms for Data Analysis

Analysis of Large and High Dimensional Data

Stochastic Processes with Applications

Statistical Learning Theory

* The curriculum is subject to change without notice.



University of Haifa
— International School —



Program Highlights

- Provide our students the ability to use statistical analysis in order to support intelligent decision making, whether by humans or machines, in the face of uncertainty.
- Produce high-quality methodological and applied research.
- Train students to work as statisticians and data scientists in leading companies with the knowledge and ability to solve problems of practical importance through statistical consulting services.