



THE HEBREW  
UNIVERSITY  
OF JERUSALEM



The Hebrew University of Jerusalem

**Summer 2019**





**Science Internship Program**

## About the program:

This summer science internship program offers senior undergraduate and graduate students the opportunity to gain cutting – edge research experience while earning academic credit. Participants will work in state of the art laboratories under the guidance of leading Hebrew University researchers participating in the program.

Students intern for 40 hours per week.



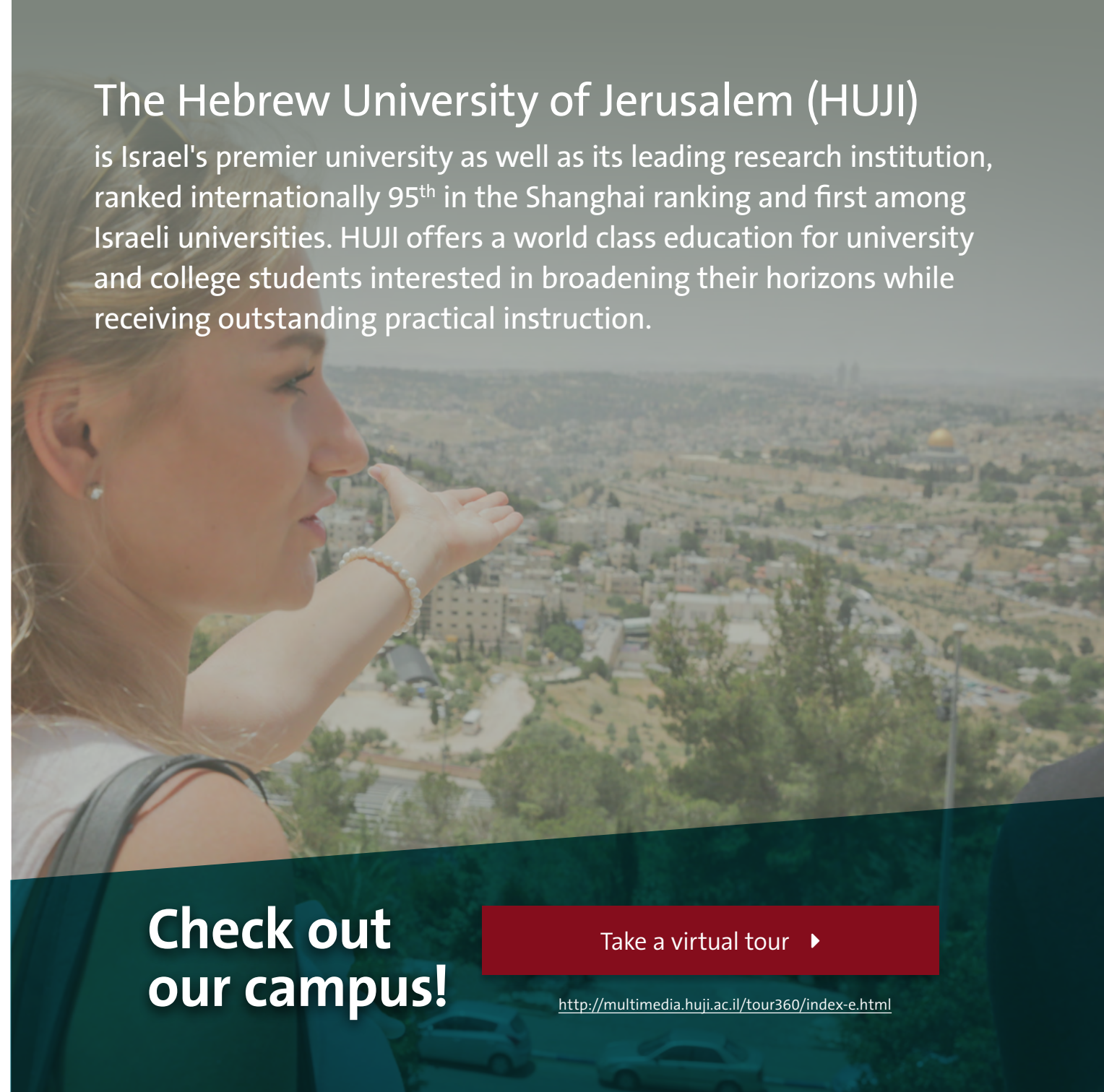
 4 weeks	 Credits	 Tuition	 Housing
June 16 – August 15 2019 <small>(can be extended in consultation with supervisor)</small>	4	US\$1000* <small>*Tuition waiver for Exchange Students</small>	US\$850 for 4 weeks

For more information, see our webpage ▶

<https://overseas.huji.ac.il/academics/summer-and-short-term-programs/summer-courses/summer-internship/>

## The Hebrew University of Jerusalem (HUJI)

is Israel's premier university as well as its leading research institution, ranked internationally 95<sup>th</sup> in the Shanghai ranking and first among Israeli universities. HUJI offers a world class education for university and college students interested in broadening their horizons while receiving outstanding practical instruction.



Check out  
our campus!

Take a virtual tour ▶

<http://multimedia.huji.ac.il/tour360/index-e.html>

## 👉 How to Apply?



### List of Internship Vacancies

[See List of internship vacancies \(p. 7\)](#)

## 🎵 Extra-Curricular Activities

The Office of Student Life (OSL) is responsible for organizing diverse extracurricular programs specially designed to introduce students to Israel. The exciting summer events, tours and activities that complement the academic program allow participants to experience the Israeli culture and society. Students can join these activities for a small fee and experience Israel to its fullest.

## 🏠 Housing

Modern, comfortable dorms are offered at the Mt. Scopus Student Village in Jerusalem, or on the Rehovot campus.

## 👤 Health Insurance

All students are required to purchase health insurance coverage for the duration of their studies.

Students who receive a tuition waiver are required to purchase lab insurance at an additional fee.

## ✅ Admission Requirements

Undergraduate level program:	Graduate level program:
<ol style="list-style-type: none"><li>1. Students who have completed at least 28 semester credits from an accredited college or university with a 3.5 (B+) cumulative GPA or its equivalent are eligible to apply.</li><li>2. English: High Level of English (B2)</li></ol>	<ol style="list-style-type: none"><li>1. Qualified students with a bachelor's degree from accredited institutions of higher education are eligible for admission to the program. Students should have at least a 3.5 (B+) grade-point average.</li><li>2. English: High Level of English (B2)</li></ol>

Special admission requirements can be found in [“List of Internships” \(p. 7\)](#).

## ✅ Eligibility

- You need to meet the above acceptance criteria.
- When applying as an exchange student, you are required to check that your home institution is a HUJI partner through a formal reciprocal exchange agreement – [visit our website](#) for list of partners.
- You need to receive invitation from a HUJI host for your internship.

### **Note for Exchange Students:**

If selected, you remain enrolled with your home institution and continue to pay your home institution fees. You will be exempt from HUJI tuition fees.

The credit points may be credited towards your degree by your home institution, on approval of your home institution.

## Application Steps

1. Review the [list of internship opportunities \(p. 7\)](#) and establish contact with the researcher (please mention "HUJI Summer Science Internship Program").
2. Exchange students to obtain approval for internship from HUJI contact person: [Ayala Feinmesser-Mizrahi](#), Exchange Student Coordinator.
3. Apply [online](#) by **May 15, 2019**
4. Receive notification of acceptance.

## Application Materials to be submitted

- CV
- Letter of motivation (one page)
- Undergraduate level: Transcript of grades
- Graduate level: Copy of your bachelor of science or master of science degree
- Proof of English level (B2 or higher)
- One letter of recommendation from faculty members or academic advisors
- Letter of endorsement from Home Institution

**Are you interested  
in applying as an  
exchange student?  
Please contact:**

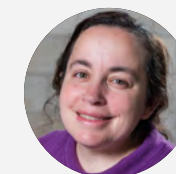


Ms. Ayala Feinmesser-Mizrahi  
Exchange Student Coordinator

 [Send an email](#)



**All other inquiries,  
Please contact:**



Ms. Toby Galili  
Internship Coordinator

 [Send an email](#)

**APPLY TODAY!**



# Internship Vacancies:

Click on a field name to go to the relevant page.

## Jerusalem

Bioengineering	<a href="#">p. 10</a> ▶
Cognitive Sciences and Psychology	<a href="#">p. 11</a> ▶
Computer Science	<a href="#">p. 11</a> ▶
Computer Science and Life Sciences	<a href="#">p. 12</a> ▶
Dental Sciences	<a href="#">p. 12</a> ▶
Department of Biological Chemistry	<a href="#">p. 13</a> ▶
Developmental Biology and Cancer Research	<a href="#">p. 13</a> ▶
Earth Sciences Institute	<a href="#">p. 14</a> ▶
Medical Neurobiology	<a href="#">p. 14</a> ▶

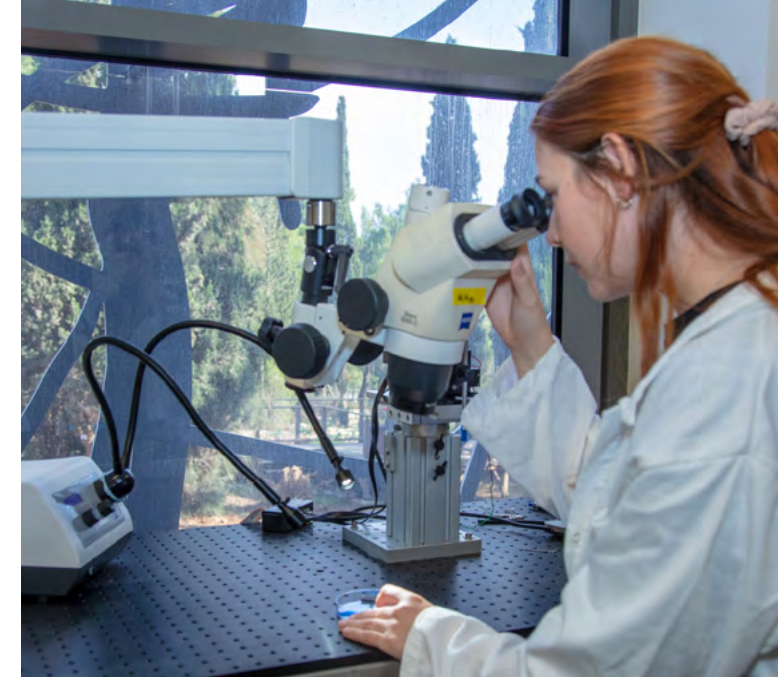
## Rehovot

Biochemistry, Food and Nutrition	<a href="#">p. 15</a> ▶
Entomology	<a href="#">p. 16</a> ▶
Plant Pathology and Microbiology	<a href="#">p. 17</a> ▶
Veterinary/Animal Science	<a href="#">p. 18</a> ▶



# Available Laboratory Internships

## Jerusalem & Rehovot



### Bioengineering

**Researcher:** Yaakov Nahmias

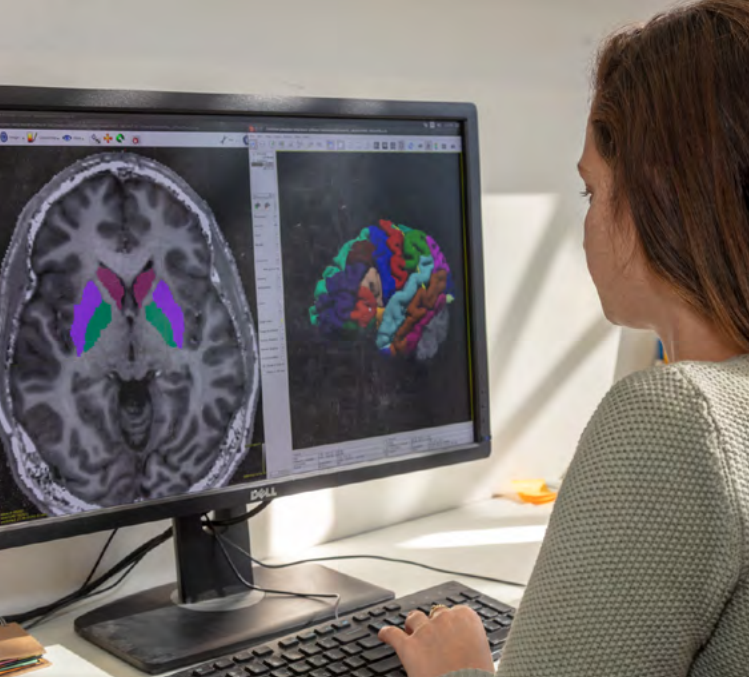
**Field of Study:** Bioengineering

**Area of Specialization:** Human on Chip,  
Cellular Agriculture

**Special Admission Requirements:** Fluency in  
English

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➤ <https://www.nahmias-lab.com>



## Cognitive Sciences and Psychology

**Researcher:** Ayelet Landau

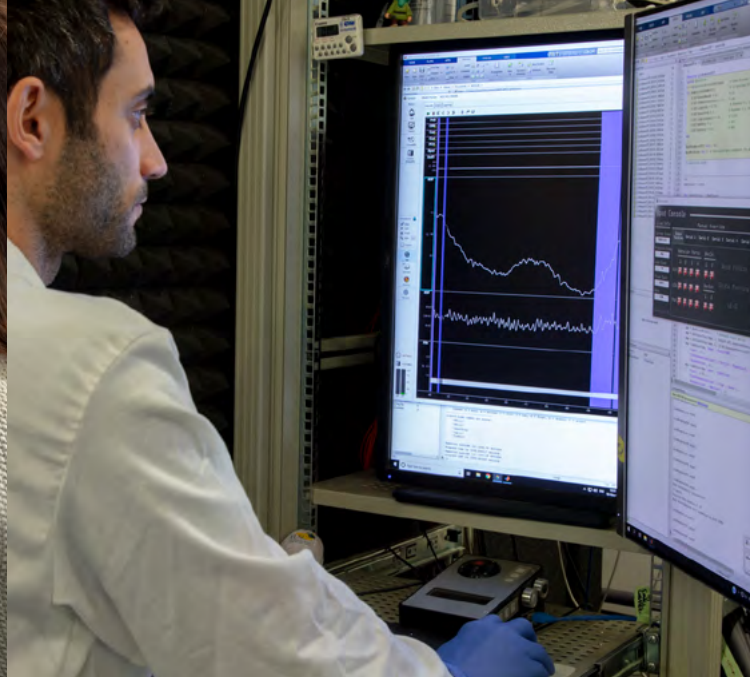
**Field of Study:** Cognitive Neuroscience

**Area of Specialization:** Time Perception, Attention, Tactile, Visual and Auditory Perception

**Special Admission Requirements:** An interest in cognitive sciences and some basic training in one of the following fields: psychology, cognitive sciences, cognitive neuroscience, physics or related fields.

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➤ [www.landaulab.com](http://www.landaulab.com)



## Computer Science

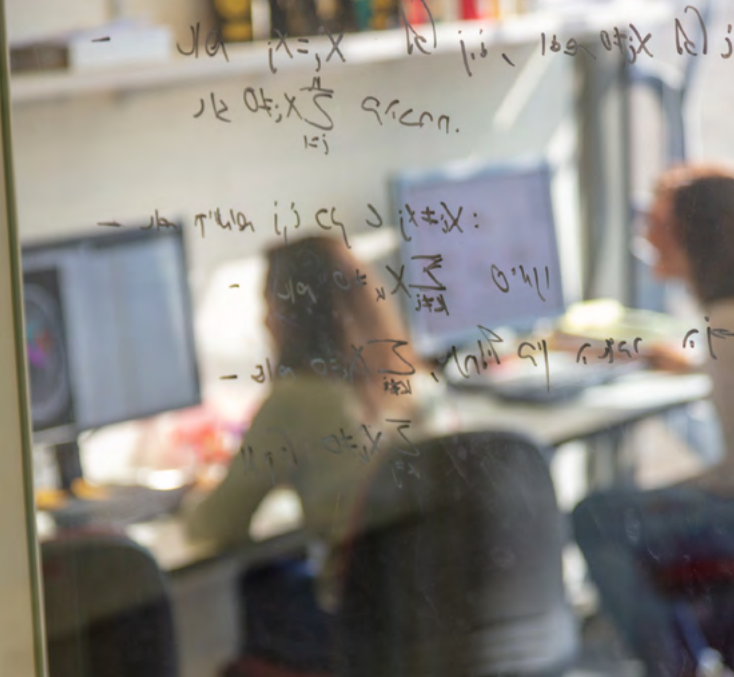
**Researcher:** Dafna Shahaf

**Field of Study:** Data Science

**Special Admission Requirements:** Excelled in a machine learning course. Ability to code.

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➤ <http://hyadatalab.com>



## Computer Science and Life Sciences

**Researcher:** Dina Schneidman

**Field of Study:** Computational Biology

**Area of Specialization:** Computational Structural Biology, Protein Structure, Protein Assembly

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➤ <http://www.cs.huji.ac.il/~dina/>



## Dental Sciences

**Researcher:** Mona Dvir-Ginzberg

**Field of Study:** Joint Diseases

**Area of Specialization:** Cartilage Biology

**Special Admission Requirements:** Basic knowledge in biology is a must, while relevant experience in laboratory procedures is preferred

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➤ <https://cannabinoids.huji.ac.il/people/mona-dvir-ginzberg>



## Biological Chemistry

**Researcher:** Julia Shifman

**Field of Study:** Biophysics, Biochemistry, Computational Biology

**Area of Specialization:** Protein Engineering, Protein-Protein Interactions

**Special Admission Requirements:** Minimum duration of 8 weeks is required

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➤ <https://www.bio.huji.ac.il/en/content/shifman-julia>



## Developmental Biology and Cancer Research

**Researcher:** Danny Ben-Zvi

**Field of Study:** Medicine, Biology

**Area of Specialization:** Systems Biology, Metabolism, Diabetes, Obesity

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➤ [www.benzvilab.com](http://www.benzvilab.com)



## Earth Sciences

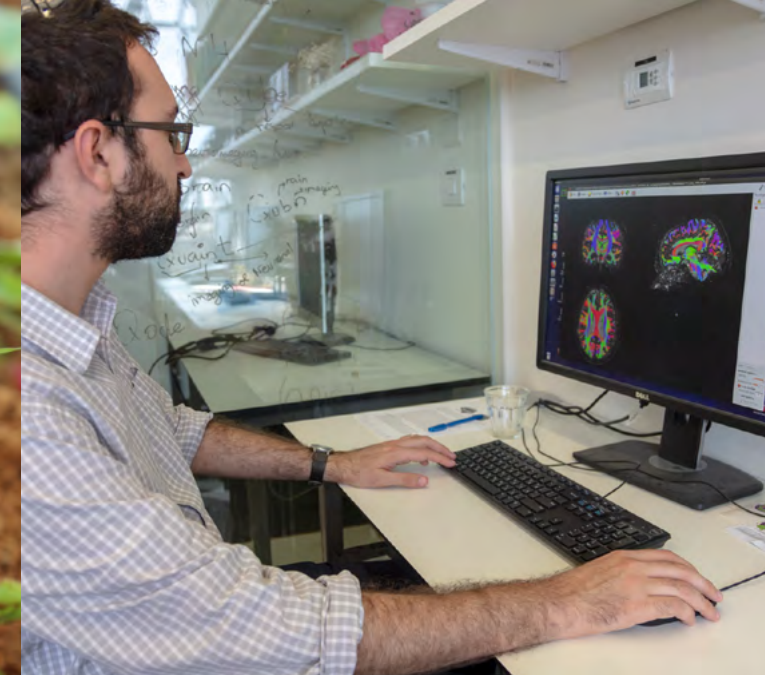
**Researcher:** Chaim Garfinkel

**Field of Study:** Atmospheric and Climate Science

**Area of Specialization:** Atmospheric Dynamics and Meteorology

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➤ <http://chaimgarfinkel.es.huji.ac.il/>



## Medical Neurobiology

**Researcher:** Ithai Rabinowitch

**Field of Study:** Medical Neurobiology

**Area of Specialization:** Complex brain operations in a simple animal the nematode worm *C. elegans*, and we engineer the worm's brain to perform new functions

**Special Admission Requirements:** Experience in biological lab work. Background in neuroscience.

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➤ <https://scholars.huji.ac.il/ithairabinowitch>





## Biochemistry, Food and Nutrition

**Researcher:** Masha Niv

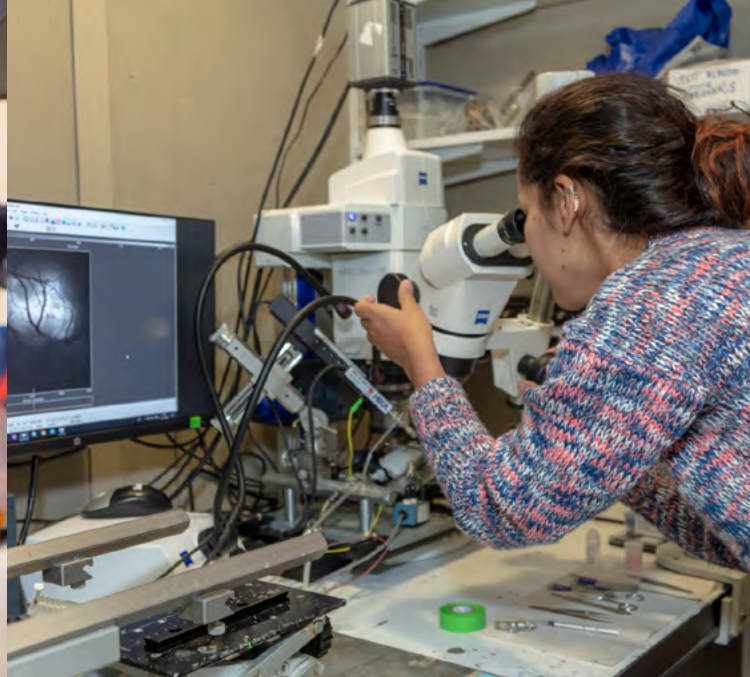
**Field of Study:** Bitter and Sweet Taste, Bioactive Peptides

**Area of Specialization:** Computer-aided Flavor Discovery, Screening of Molecules, Modeling

**Special Admission Requirements:**  
Some background in programming and interest in taste

📍 Rehovot

➤ [http://departments.agri.huji.ac.il/biochemfoodsci722/teachers/niv\\_masha/lab/](http://departments.agri.huji.ac.il/biochemfoodsci722/teachers/niv_masha/lab/)



## Biochemistry, Food and Nutrition

**Researcher:** Zohar Kerem

**Field of Study:** Bioactive Compounds from Plants

**Area of Specialization:** Bio-active Compounds in Olive Oil and in Wine

**Special Admission Requirements:**  
Interview

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➤ <https://en.hafakulta.agri.huji.ac.il/people/zohar-kerem>



## Entomology

**Researcher:** Philippos A. Papathanos

**Field of Study:** Molecular Entomology and Genetics

**Area of Specialization:** Insect Genetics, Gene Drives, Genetic Engineering

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➤ <https://www.papathanos.org/>



## Entomology

**Researcher:** Yael Heifetz

**Field of Study:** Reproduction, Aging, Extracellular Vesicles

**Area of Specialization:** Developmental Biology, Genetics (Using fruit flies and human related in-vitro models), Physiology

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➤ [http://departments.agri.huji.ac.il/entomology/yael\\_heifetz/index.html](http://departments.agri.huji.ac.il/entomology/yael_heifetz/index.html)



## Plant Pathology and Microbiology

**Researcher:** Asaf Levy

**Field of Study:** Computational Biology, Microbial Genomics

**Area of Specialization:** Plant-Microbe Interactions

**Special Admission Requirements:** CV, transcripts, at least 2 reference letters

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➤ <http://departments.agri.huji.ac.il/plantpath/alevy/>



## Plant Pathology and Microbiology

**Researcher:** Jonathan Friedman

**Field of Study:** Microbial Community Ecology

**Area of Specialization:** Engineering of Microbial Communities using Modeling, Genomics, and High-Throughput Experiments

**Special Admission Requirements:** Background in either microbiology, genomics, or mathematical modeling

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➤ <https://www.friedmanlab.net/>



## Plant Pathology and Microbiology

**Researcher:** Tamar Friedlander

**Field of Study:** Evolutionary Theory, Mathematical Biology

**Area of Specialization:** Evolution of Self-Incompatibility in Plants

**Special Admission Requirements:** Degree in either Math/Physics/Engineering/CS; familiar with programming, quantitative skills, interest in basic science, curiosity, creativity

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➤ [http://departments.agri.huji.ac.il/plantscience/people/Tamar\\_Friedlander/](http://departments.agri.huji.ac.il/plantscience/people/Tamar_Friedlander/)



## Veterinary/Animal Science

**Researcher:** Nahum Shpigel

**Field of Study:** Enteric Nervous System, Host Pathogen Interaction

**Area of Specialization:** Host Pathogen Interactions in the Human Gut and the Mammary Gland

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➤ <https://openscholar.huji.ac.il/nahums>



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