ADAMS
Fellowships מלגות אדמס

האקדמיה הלאומית הישראלית למדעים
المجمع الوطني الإسرائيلي للعلوم والآداب
THE ISRAEL ACADEMY OF SCIENCES AND HUMANITIES

כנס אדמס תשפ"ה

ADAMS CONFERENCE 2025

January 2025 ינואר

Adams Conference

Wednesday, January 22, 2025

כנס אדמס

יום רביעי, כ"ב בטבת תשפ"ה

	Moderator **Prof. Moshe Oren**, Academy Member, Chair of the Adams Fellowships Program	מנחה **פרופ' משה אורן** יו"ר ועדת תוכנית מלגות אדמס
9:30-10:00	Refreshments	כיבוד קל
	Morning Session	**מושב בוקר**
10:00-10:10	**Prof. David Harel**, President of the Academy Opening Remarks	**פרופ' דוד הראל**, נשיא האקדמיה דברי פתיחה
10:10-10:20	**Prof. Moshe Oren**, Academy Member, Chair of the Adams Fellowships Program Introduction	**פרופ' משה אורן**, חבר האקדמיה, יו"ר ועדת מלגות אדמס הקדמה
10:20-11:20	Adams Fellows Class of 2024-2025: **Michael Birk**, Physics, Technion – Israel Institute of Technology **Roni Gattegno**, Biomedical Engineering, Tel Aviv University **Alon Gutfreund**, Physics, The Hebrew University of Jerusalem **Vladimir Mindel**, Molecular Genetics, Weizmann Institute of Science	מלגאי אדמס מחזור 2024-2025: **מיכאל בירק**, ננו־מדע וננוטכנולוגיה, הטכניון - מכון טכנולוגי לישראל **רוני גטניו**, הנדסה ביו־רפואית, אוניברסיטת תל אביב **אלון גוטפרוינד**, פיזיקה, האוניברסיטה העברית בירושלים **ולדימיר מינדל**, גנטיקה מולקולרית, מכון ויצמן למדע
11:20-12:20	**Dr. Barak Hirshberg**, Assistant Professor of Chemistry, Tel Aviv University, on A Hitchhiker's Guide to an Academic Career	**ד"ר ברק הירשברג**, בוגר אדמס, פרופסור עוזר לכימיה, אוניברסיטת תל אביב על מדריך הטרמפיסט לקריירה אקדמית
12:20-13:20	LUNCH	ארוחת צוהריים
13:20-14:00	Tour of the Academy's historical exhibit led by **Meira Brandwein**, Incoming Head of the Adams Fellowships Program	סיור בתערוכה ההיסטורית של האקדמיה בליווי **מאירה ברנדוויין**, המנהלת הנכנסת של תוכנית מלגות אדמס
	Afternoon Session	**מושב אחה"צ**
14:00-15:15	**Prof. Amir Amedi**, Baruch Ivcher Institute for Brain, Cognition & Technology (BCT Institute), Reichman University, on How can merging neuroscience and technology help revolutionize medicine and the basic understanding of our brain?	**פרופ' אמיר עמדי**, בית ספר ברוך איבצ'ר לפסיכולוגיה, אוניברסיטת רייכמן, על איך השילוב של פיתוח טכנולוגיות חדשות ונוירוסיינס יכול לתרום למהפכה בתחומי הרפואה והבנה בסיסית של המוח האנושי?
15:15-16:15	Adams Fellows Class of 2024-2025: **Doron Pinko**, Earth and Environmental Sciences, Ben-Gurion University of the Negev **Jonathan Somer**, Electrical Engineering, Technion – Israel Institute of Technology **Elad Tzalik**, Mathematics, Weizmann Institute of Science **Elad Zehavi**, Electro-Optical Engineering, Bar-Ilan University	מלגאי אדמס מחזור 2024-2025: **דורון פינקו**, מדעי כדור הארץ והסביבה, אוניברסיטת בן־גוריון בנגב **יהונתן זומר**, הנדסת חשמל ומחשבים, הטכניון – מכון טכנולוגי לישראל **אלעד צליק**, מתמטיקה ומדעי המחשב, מכון ויצמן למדע **אלעד זהבי**, הנדסת אלקטרואופטיקה, אוניברסיטת בר־אילן
16:15	**Prof. Moshe Oren** Closing Remarks	**פרופ' משה אורן** דברי סגירה

Adams Seminar 2024 with the participation of former Academy President Prof. Nili Cohen, Adams Fellowships Chair Prof. Moshe Oren, Sylvan and Linda Adams. The guest speaker was Prof. Amnon Shashua.

Greetings from

Prof. Moshe Oren

Academy Member;
Chair, Adams Fellowships Steering and Approval Committee

Warm greetings to all our Adams Fellows, Adams Alumni and Adams Committee Members and distinguished speakers,

Marcel Adams, who generously established the Adams Fellowships Program, was born in 1920 and lived in Europe through the years of the Second World War and the Holocaust. He never had a chance to complete his formal education, but this only increased his enthusiasm for learning and his admiration for human knowledge. As a strong supporter of Israel, it was therefore only natural for him to decide that he should invest in advancing knowledge in this country, and what better way is there than investing in our future generation of scientific leaders?

More than a year has already passed since the massacre of October 7th. The deep shock that we all experienced then, remains with us even now. Things that we had taken for granted were brutally shattered. The war is still going on, many of the hostages remain in captivity, far from their families and homes, and the future of Israel is far from being clear and secure. Nevertheless, we all need to continue doing what we know how to do best, and in this way contribute to brighter prospects for our country.

This entrusts you, Adams Fellows, perhaps even more now than ever, with the mission to fulfill Marcel's dream to make Israel a hub of scientific excellence and a powerhouse of human knowledge. Let us all hope for the end of the war, the imminent return of the hostages, and better days to come.

Dr. Noam Harel received the Ruth Arnon Postdoctoral Fellowship for Adams Alumnae

Dr. Barak Hirshberg

Assistant Professor of Chemistry,
Tel Aviv University

Barak Hirshberg has been an Assistant Professor at the School of Chemistry, at Tel Aviv University, since January 2021. Previously, he was a Rothschild postdoctoral fellow in the group of Prof. Michele Parrinello at ETH Zurich. He obtained his PhD as an Adams Fellow of the Israel Academy of Sciences and Humanities with Prof. R. Benny Gerber at the Hebrew University of Jerusalem.

Some of his recognitions include the Israel Chemical Society Prize for an Excellent Graduate Student and the Lise Meitner-Minerva Center Junior Award for an outstanding paper in computational quantum chemistry. Most recently, he won the Journal of Chemical Physics Best Paper by Emerging Investigator Award and was the inaugural awardee of the Rector's Prize for Innovation and Creativity in Teaching at Tel Aviv University.

The Hirshberg lab develops computer simulations to understand the static and dynamic properties of quantum and classical condensed phase systems, focusing on molecular materials. They design algorithms to overcome the fundamental limitations of standard methods: 1) extending them to much longer timescales, 2) describing bosonic and fermionic exchange at finite temperatures, and 3) simulating many-body quantum dynamics. These tools are used to investigate phenomena such as quantum phase transitions, molecular crystal polymorphism, and biomolecular conformational dynamics.

Adams Fellows Class of 2023

Prof. Amir Amedi

Baruch Ivcher Institute for Brain, Cognition & Technology (BCT Institute), Reichman University

Chief Scientist and cofounder of REMEPY

Prof. Amir Amedi is a multidisciplinary researcher with an educational background in computational neuroscience, biology, music and clinical medicine (Harvard, NIH). His pioneering multisensory and brain neuroplasticity research has led to recognition and many awards (such as those of the Wolf and McDonnell Foundations). His discoveries have been published in prestigious scientific and general-readership journals (*Nature, NYT, Wired*). He has published over 100 papers & patents.

In 2019 he founded The Baruch Ivcher Institute for Brain, Cognition & Technology, a unique lab at Reichman University that inspires innovation. In 2020 he was recognized as a Genius 100 Visionary Fellow, and in 2022 he founded Remepy, a software–drug combination-therapy company.

Prof. Amedi is known for making science accessible, and his research has helped reshape some of neuroscience's most fundamental questions and theories. For example, he helped revise the Critical Periods Theory, for which David Hubel and Torsten Wiesel received the 1981 Nobel Prize in Physiology or Medicine.

Adams Fellows Class of 2024

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