ADAMS SEMINAR 2019
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Adams Seminar 2019
סמינר אדמס תשע”ט

Guest Lecturer

Professor Shai Efrati, MD

Sackler School of Medicine
and Sagol School of Neuroscience, Tel Aviv University;
Director, Sagol Center for Hyperbaric Medicine and Research,
Assaf-Harofeh Medical Center
Professor Shai Efrati, MD

Professor at the Sackler School of Medicine and the Sagol School of Neuroscience at Tel Aviv University; Director of the Sagol Center for Hyperbaric Medicine and Research, Assaf Harofeh Medical Center; Chair of the Israeli Society for Diving and Hyperbaric Medicine (ISDHM)

The Sagol Center for Hyperbaric Medicine and Research at Assaf Harofeh Medical Center, under Prof. Efrati’s management, has become one of the largest hyperbaric centers worldwide, currently treating more than 200 patients per day. Prof. Efrati is also Director of Research & Development at Assaf Harofeh Medical Center, affiliated with Tel-Aviv University. Joining his two passions and positions, Dr. Efrati has initiated a research program focusing on the regenerative effects, starting with neuroplasticity, of Hyperbaric Oxygen Therapy (HBOT). In the first clinical studies it was demonstrated that HBOT can induce neuroplasticity in post-stroke and traumatic brain injury patients even years after the acute Insult. The important clinical results and physiological understanding gained from these studies have led to fruitful ongoing collaboration. A multidisciplinary team is focusing on the regenerative effects of hyperbaric oxygen in various types of brain injuries, such as the central sensitization syndrome known as fibromyalgia, PTSD and so-called aged-related functional decline.

Clinical studies published in recent years present convincing evidence that HBOT could become the sought-after neurotherapeutic method of brain repair for neurological incidents such as traumatic brain injury and stroke. This new understanding leads to a paradigm change in the way we refer to chronic brain injuries: From now on, these should basically be handled like non-healing wounds in any other part of the body.

Even though many of the beneficial effects of HBOT can be explained as consequences of improved tissue oxygenation, it is now recognized that intermittent increase of oxygen concentration can induce many of the mediators and cellular mechanisms that are usually induced during hypoxia, but without inducing the hazardous “hyperoxic-hypoxic paradoxes.” HBOT can decrease the inflammatory response in endothelial cells and thus promote vascular recovery.

In his lecture, Prof. Efrati will focus on new perspectives on chronic unremitting brain injuries and the multi-faceted role of HBOT in neurotherapeutics, based on accumulating recent evidence.
Marcel Adams

Hebrew-speaking philanthropist Marcel Adams, who escaped from a forced-labor camp in Romania in 1944, fought in Israel's War of Independence and made his fortune in Montreal, has endowed the Adams Fellowship Program to support Israel's brightest doctoral students in the natural and exact sciences each year.

Marcel Adams (Abramovich) was born in Piatra-Neamt, Romania, in 1920. The anti-Semitic regime in Romania during the Holocaust interrupted his studies, triggering a lifelong quest for learning and a zest for the life of the mind. An active member of Hanoar Hazioni in Bucharest, Adams survived forced labor, food shortages and arbitrary harassment by the authorities.

After coming to Israel with the Jewish Agency's help in 1944, Adams settled in Pardes Hanna and participated in the War of Independence. He moved to Canada in 1951 and worked as a tanner before going into real estate. He eventually developed dozens of properties, mostly in eastern Canada, including Galeries de la Capitale, the largest shopping mall in the province of Quebec. With his late wife Annie, he established Tel Aviv University’s Adams Institute for Business Management Information Systems and endowed the university’s Adams Super Center for Brain Research. Marcel Adams is a Montreal resident, the proud father of four and grandfather of eleven. He remains full of energy and looks at least a decade younger than his 99 years.

Adams officially signed an agreement to establish the Adams Fellowships with the Israel Academy of Sciences and Humanities in Jerusalem in May 2005. The fund is large enough to provide $1 million annually to outstanding PhD students, covering their full tuition and living expenses throughout three to four years of study and including funds for attending scientific conferences and workshops abroad. Most recipients are aged 26 to 34.

The easy way would have been to hand over a check, but Adams wishes to pay back his 1944 debt to the Jewish people, which gave him a new identity and hope for rebuilding from the ashes of Europe. The fellowship helps young men and women thrive technologically, scientifically and intellectually. In turn, Adams believes they will carry the flag for the next generation and for future generations.

A professional committee at the Academy reviews applications from doctoral students and chooses the awardees, for study in such fields as organic chemistry, molecular biology, chemistry, mathematics, engineering, physics, genetics, computer science and brain research.

Marcel Adams wishes to help the best and brightest academics, those with tremendous potential for growth, who have demonstrated excellence in both quality of mind and personal character.

This year’s newly appointed Adams Fellows represent the Fifteenth Cycle of the Adams Fellowship Program.
ADAMS Fellowship Steering & Approval Committee

Professor Moshe Oren
Chairman

Professor Naama Barkai

Professor Yoav Benjamini

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Professor David Kahzdan

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Professor Yosef Shiloh

Professor Yigal Talmi

Professor Jacob Ziv
Greetings from

Prof. Moshe Oren

Academy Member, Chair of the Adams Fellowships Steering and Approval Committee

Warm greetings to all our Adams Fellows, Adams Alumni, Adams Committee Members, Academy President Prof. Nili Cohen, Academy Vice-President Prof. David Harel, Academy Members, and last but surely not least, dear members of the Adams family, whose continuous generosity has enabled this unique program to promote scientific excellence in Israel for fifteen years.

Marcel Adams, who 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 passion for learning and his admiration for human knowledge. It therefore came naturally to him, as a strong supporter of Israel, to invest in advancing knowledge in this country. And what better way is there than investing in our future generation of scientific leaders?

This entrusts you, Adams Fellows, with a special mission: You are expected not only to advance your own careers, but also to fulfil a dream – Marcel’s dream of making Israel a hub of scientific excellence and a powerhouse of human knowledge. We members of the Adams committee make every effort to ensure that we pick the best of the best. You, in turn, should never let your curiosity and your passion for knowledge fade out.

And this is perhaps a good time to sound a word of caution. These days, many “basic” discoveries are rapidly transformed into startups or even more than just startups, particularly in our “startup nation.” This is a blessing, but also a danger. Mixing pure academic research with business considerations may cause us to refrain from sharing our knowledge with colleagues, lest they “steal our secrets” and move forward faster. That goes against the spirit of pure science and slows down our journey toward better understanding of our universe and everything therein. Don’t be afraid to share. Discuss your research openly, listen to criticism, and share your wisdom with colleagues who can benefit from it. In a world where we are overwhelmed by the amazingly rapid flow of new information, scientific research is not a one-person game anymore. I believe that, in this world, collaboration is the best guarantee of accelerated progress. If you are good enough – and, being Adams fellows, you are undoubtedly excellent – you will stand out and get your due recognition.
And when your time comes to be mentors to the next generation of students, please make sure that you keep their passion as intense as yours, and that they remain driven by curiosity and not by convenience. Indeed, we are beginning to see new Adams Fellows whose mentors are former recipients of Adams Fellowships. As committee members, this gives us great joy. I hope whoever stands on this podium ten or twenty years from now will be greeting your students. In the meantime, I would like to wish you all a lot of satisfaction in your scientific endeavors and in moving successfully to the next stages of your careers.

M. Oren

Professor Moshe Oren
I am very pleased to greet our new Adams Fellows for 2019–2020 here at the Israel Academy of Sciences and Humanities. Since the inauguration of the Adams Fellowship Program in May 2005, 127 Adams Fellows, PhD students of the highest academic standing, have been inducted. Many of them now hold research and teaching positions in major universities and research centers and in the high-tech and biotech industries. We are happy to introduce this year’s eight new fellows briefly in this brochure.

Adams Fellows enjoy sustained financial support for three to four uninterrupted years of doctoral study. The amount of the grant has been increased to compensate for inflation and currency fluctuation and to maintain the prestige of the Adams Fellowships. The Fellows also enjoy two privileges unique to this graduate student support program. Each Adams Fellow is eligible for an annual international study grant of $3,000, to be used for active participation in international scientific conferences/workshops, for laboratory study abroad, for international scientific collaboration or to interview for a postdoctoral position, provided the trip is intended to contribute meaningfully to his/her scientific career.

Adams Fellows are also given the opportunity to interact with one another and to form a small science community of their own, through initiatives such as invited lectures by renowned scientists at annual seminars and conferences, science communication workshops and field trips. We are confident that the Adams Fellowships constitute a meaningful contribution to the training of excellent scientists in Israel.

I would like to extend my heartfelt admiration and appreciation to Mr. Marcel Adams for playing such a vital role in the support of Israel’s brilliant young scientists. I was privileged to meet Marcel Adams and his dear late wife Annie while I was rector of Tel Aviv University, and I marveled then at their vision and commitment to the advancement of science. It is a great pleasure for me to celebrate Marcel’s 99th birthday at the Israel Academy, and, wishing him good health, I look forward to celebrating his 100th birthday next year! Since getting to know his family personally, I have been extremely impressed by their steadfast devotion to the promotion of science. We are deeply grateful to the Adams family and are honored by their outstanding support.
Yoav Bauman was born and raised in Jerusalem. During high school, Yoav became increasingly interested in the life sciences field and subsequently decided to major in biology. Following his military service as a combat soldier, he started his studies in the Life Sciences undergraduate program at the Hebrew University where he graduated magna cum laude. During his studies, Yoav became acquainted with the field of Immunology and was amazed by the complexity of the immune system and how little is known about its workings.

In order to pursue these topics, Yoav joined Ofer Mandelboim’s laboratory in the third year of his BSc studies and continued to his PhD in the Lautenberg Center for General and Tumor Immunology, The Hebrew University of Jerusalem. Yoav’s research focused on viral mechanisms hampering the ability of NK cell recognition of infected cells, thus enabling the virus to evade the immune system. Yoav’s latest findings demonstrate how two viruses of the human polyomaviruses family, found in the majority of the human population, use an miRNA mediated mechanism to evade NK cell attack and remain undetected by our immune system. Yoav’s findings were recently published in the Cell Host & Microbe journal. Yoav is currently a PhD student of Prof. Ofer Mandelboim, Lautenberg Center for General and Tumor Immunology, The Hebrew University of Jerusalem.

Dissertation topic: Pathogen Recognition by Natural Killer Cells

Roie Dann
PhD student of Prof. Ronnie Kosloff, Fritz Haber Center for Molecular Dynamics, Institute of Chemistry, Faculty of Sciences and Mathematics, The Hebrew University of Jerusalem.
Dissertation topic: Dynamical Perspectives of Quantum Thermodynamic Resources and Their Utility.

Roie was born in Jerusalem and grew up in Kfar Yehoshua in the Jezreel Valley. After serving in an IDF reconnaissance unit, he returned to Jerusalem to pursue a BSc in chemistry at the Hebrew University of Jerusalem, in the Amirim Natural Sciences Excellence Program. Upon completing his BSc summa cum laude, Roie began his MSc in the quantum theory group of Prof. Ronnie Kosloff, where he is currently conducting his PhD research. During his MSc studies he developed a new laser cooling theory, based on random motion of atoms and collective effects. The intriguing and surprising behavior of nature in the quantum regime and the elegance of the quantum theory inspired him to research open problems in quantum thermodynamics for his doctorate.

In his current research, Roie is studying the dynamic properties of quantum systems interacting with an external environment. His research concentrates on the interplay between external controls and the environment, for the purpose of incorporating these effects to enhance the performance of quantum devices. He hopes that the study of quantum-thermo theoretical models will elucidate the fundamental relationship between quantum mechanics and thermodynamics theories.

Alongside his research, Roie enjoys working as a teaching assistant in thermodynamics and quantum mechanics courses. For his academic achievements, Roie has received the Dr. Abraham Felzenstein Memorial Fund Award, the Dr. Yehoyahin Kanat Memorial Fund Award and the Excellence Award in Memory of Prof. Chava Lifshitz from the Sara Wolf Memorial Fund.

Ron Efrat
PhD student of Dr. Oded Berger-Tal, Marco and Louise Mitrani Department of Desert Ecology (MDDE), Sde-Boker Campus, Ben-Gurion University of the Negev
Dissertation topic: The Effects of Learning and Experience on the Survival and Migration Proficiencies of Captive-bred and Wild Vultures

Ron grew up in Rosh Pina, a picturesque town in northern Israel, where his parents raised him to love and respect nature and people. This upbringing led him to volunteer as a guide in the Hanoar Ha’oved Vehalomed youth movement and later to continue volunteering, guiding and teaching. Ron received his BSc in biology and environmental studies from The Hebrew University of Jerusalem. During his undergraduate studies, he participated in a research project in the lab of Prof. Ran Nathan, where he later completed his MSc research, studying behavior modifications of pelicans during their migration across the Sahara Desert. During and after his MSc, Ron was involved in many other avian ecology projects, with the ultimate goal of advancing bird conservation.

Wishing to focus more on applied research, Ron moved to Midreshet Ben-Gurion for his PhD and joined Dr. Oded Berger-Tal’s conservation and animal behavior lab. Ron’s research focuses on understanding complex animal behaviors and learning processes and the implementation of this understanding in conservation. He is comparing captive-bred reintroduced vultures and wild-bred vultures with regard to the learning process and its consequences on behavior and survival. His initial results show that different early-life experiences affect the behavior and survival of vultures in later stages of their lives. He hopes that the results of his PhD research, and other projects in which he is involved, will be useful in advancing conservation issues and broadening the understanding of animal ecology and behavior, both locally and globally.
Renan Gross

PhD student of Dr. Ronen Eldan, Faculty of Mathematics and Computer Science, The Weizmann Institute of Science

Dissertation topic: Regularity and Mean-fields Gibbs Distributions

Renan spent his high-school years at the Israel Arts and Science Academy in Jerusalem, where he took delight in programming, music, and freedom of action. During his army service he made the mistake of reading the book *One Two Three … Infinity* by George Gamow, which really left him no choice but to study mathematics. He finished his undergraduate degree in mathematics and physics in the Technion’s Excellence Program, tossed a coin, and carried on for an MSc and PhD in mathematics at the Weizmann Institute, under the supervision of Ronen Eldan.

Renan’s research focuses on probability and Boolean functions. Within probability, he mostly tries to understand how to approximate Gibbs distributions, which are commonly found when describing interacting systems such as magnets or friendship networks. His work often entails following random walks around and seeing what can be learned from their trajectories. He has also worked on the origin of life, collective motion of bacterial swarms, and quantum information.

Renan enjoys what he does: Mathematics, with all its hard-set iffs and irrevocable deductions, always manages to surprise him. He tries not to take life too seriously, since it quite obviously doesn’t take him very seriously either.

Aviv Karnieli

PhD student of Prof. Ady Arie, Department of Physical Electronics, School of Electrical Engineering, Tel Aviv University

Dissertation topic: Quantum Effects of Photons and Electrons

Aviv was born in 1989 and grew up in Rehovot, where he now lives with his wife Dana and their newborn daughter Noa. Intrigued by science from an early age, Aviv studied physics in high school and graduated with honors. Following his army service in an elite intelligence unit, he enrolled for a BSc in electrical engineering at Tel Aviv University and was awarded the Adi Lautman Program Scholarship for outstanding students. He went on to join the double major track in physics and electrical engineering, from which he graduated summa cum laude. While still an undergraduate, he held student positions at Intel, as an electrical engineer, and then at Applied Materials, as a physicist.

For his MSc, under the supervision of Prof. Ady Arie, Aviv studied analogies between nonlinear optics and quantum mechanics, the interesting effects emerging from them and their possible use for quantum information processing. In 2018, he moved to a direct PhD track under the joint supervision of Prof. Ady Arie and Prof. Ido Kaminer of the Technion, investigating the quantum aspects of electron-light interactions as well as classical and quantum nonlinear optics. Aviv has received the Feder Family and the Electro-optics Fund Awards for his research in nonlinear optics.
Yaron Laufer
PhD student of Prof. Sharon Gannot, Faculty of Engineering, Bar-Ilan University
Dissertation topic: Bayesian Methods in Speech Processing

Yaron Laufer was born in Petah Tikva. After studying in the Hesder yeshivas in Mitzpe Ramon and Ma’alot and serving as a combat soldier in the Golani Brigade, Yaron began studying for his BSc in electrical engineering at Bar-Ilan University. During his undergraduate studies, he participated in the prestigious “Chosen Ones” scholarship program for outstanding students, and he received the Rector’s and Dean’s Prizes and the Faculty Excellence Award for his final project. He graduated summa cum laude and first in his class.

Yaron continued in the five-year direct BSc + MSc track. The results of his MSc research in the field of communication and information theory were published in two international conference papers and in the leading journal in information theory. He received the Rector’s Prize and the Intel Award and graduated summa cum laude.

Following his graduation, Yaron began working as a researcher and algorithm developer in the elite research group at Elbit Systems, where he was involved in developing innovative technologies in the field of electronic warfare.

After three years at Elbit, Yaron returned to Bar-Ilan University to begin his PhD studies in the field of audio signal-processing. His research focuses on developing statistical methods and theoretical bounds for estimating speech signals from multi-microphone recordings contaminated by reverberation, interfering speakers and noise. Solutions to this problem are of great importance for various applications in devices as diverse as mobile phones, hands-free systems and hearing aids, which nowadays are equipped with multiple microphones. The results of his research thus far have been published in a journal paper and presented in two international conference papers.

Lior Rotem
PhD student of Prof. Gil Segev, Rachel and Selim Benin School of Computer Science and Engineering, The Hebrew University of Jerusalem

Growing up in Holon and Rishon LeZion, Lior developed a taste for mathematical sciences at a young age. After completing his military service as an officer in the IDF’s Intelligence Corps, he enrolled in a double-major BSc program in computer science and economics at Tel Aviv University. He graduated summa cum laude in both majors, co-authoring his first academic paper, in the field of theoretical cryptography, in his last year as an undergraduate. It was then that he fell in love with cryptography as an area of research with profound mathematical foundations and far-reaching practical implications. He moved on to pursue an MSc in computer science at The Hebrew University of Jerusalem, again graduating summa cum laude. His MSc thesis, later published as an academic paper, dealt with the theoretical soundness of basic cryptographic assumptions.

Lior is presently carrying on his research in cryptography as a PhD candidate under the supervision of Prof. Gil Segev. His focus is on understanding the security guarantees currently provided by widespread messaging platforms (such as WhatsApp and Telegram) and the “best possible” security that they can demonstrably provide, based on sound mathematical assumptions. He has published and presented several papers on this issue at prestigious conferences and responded to various questions concerning secure messaging. For example, Lior has proposed protocols for secure messaging in group chats and for secure messaging for users who do not precisely follow the instructions provided to them. Alongside his research activity, Lior serves as a teaching assistant in an undergraduate course on cryptography and software security.

During his military service, Lior met his beloved wife Daphne, with whom he lives in Jerusalem.
Aseel Shomar
PhD Student of Prof. Naama Brenner, The Wolfson Department of Chemical Engineering and Prof. Omri Barak, The Rappaport Faculty of Medicine, Tecnion – Israel Institute of Technology
Dissertation topic: Cell States and Transitions in Development and Cancer: Insights from Learning Theory

Aseel was born and raised in Nazareth. Her belief that integrating purportedly alien fields could produce innovative applications led her to study biochemical engineering at the Technion, with the goal of unraveling some of the mysteries of cancer. Her first efforts to tackle cancer using collaborative approaches culminated in her senior thesis, which aimed to develop nano-sized factories to manufacture cancer drugs at tumor sites.

As Aseel began her MSc studies in the prestigious interdisciplinary Nanoscience and Nanotechnology Program at the Technion, she became interested in neuroscience, based as it is on the recruitment of such varied fields as biology, physics, mathematics and computer science. This led her to join the ongoing fruitful collaboration between Prof. Naama Brenner and Prof. Noam Ziv. Her MSc project, on which she has published a paper, described a mesoscopic-level model that provides an effective description of spontaneous synaptic size dynamics.

Aseel received both degrees summa cum laude, ranking first in her class. She has received several prizes and fellowships for her distinguished academic achievements, including the Noam Fellowship, the Technion Alumni Prize, the Goldstein Prize, the Avrahami Prize and the Sherman Interdisciplinary Graduate Fellowship.

Having equipped herself with vital skills from wide-ranging fields, she now aims to introduce concepts long studied in neuroscience to the study of cancer and stem cells. Her PhD project, supervised by Professors Brenner and Barak, will focus on describing the transitions between different cell states using concepts from learning theory.

In addition to her research, Aseel serves as a project instructor in the Faculty of Chemical Engineering and a teaching assistant in the Faculty of Medicine.

Shai Tsesses
PhD student of Prof. Guy Bartal, Andrew & Erna Viterbi Faculty of Electrical Engineering, The Technion – Israel Institute of Technology
Dissertation topic: Topology and Angular Momentum Transfer Between Light and Matter in Nanoscale Photonic Systems

Born and raised in Nesher, Israel, Shai matriculated from the Hebrew Reali School of Haifa, majoring in physics, economics, Arabic, and English Literature. He completed four and a half years of military service with the rank First Lieutenant and currently holds the rank of Captain (in the reserves). He went on to earn a double BSc in electrical engineering and physics from the Technion, in the excellence program of the Faculty of Electrical Engineering.

Shai has been fascinated from a young age not only with science (he was touted as one of Israel’s “future scientists” at the 25th Wolf Prize Convention), but also with other subjects, such as history, mythology, arts and sports. Among other hobbies, he plays the clarinet, sings in a band and occasionally contributes articles to Israeli sport blogs and newspapers.

Shai hopes to make use of light for the betterment of humankind. With his advisor, Prof. Bartal, he is investigating the topological traits of light at the nanoscale and the ways in which they can be transferred to matter. Aside from its theoretical contribution, his research could enable new schemes in quantum information processing and particle nano-manipulation, while creating novel, tunable radiation sources. He is also participating in several other scientific endeavors, in collaboration with over 10 research groups in and outside of Israel.
Yoav Bauman was born and raised in Jerusalem. During high school, Yoav became increasingly interested in the life sciences field and subsequently decided to major in biology. Following his military service as a combat soldier, he started his studies in the Life Sciences undergraduate program at the Hebrew University where he graduated magna cum laude. During his studies, Yoav became acquainted with the field of Immunology and was amazed by the complexity of the immune system and how little is known about the interaction of immune cells with pathogens.

In order to pursue these topics, Yoav joined Ofer Mandelboim’s laboratory in the third year of his BSc studies and continued to his PhD in the direct track. Mandelboim’s lab investigates the biology of Natural Killer (NK) cells, which are part of the innate immune system. NK cells provide the first line of defense against virally infected or cancerous cells by rapidly killing these hazardous cells. NK cell recognition of the virally infected cells is the first and pivotal process in the execution of NK cell killing. Yoav’s research focused on viral mechanisms hampering the ability of NK cell recognition of infected cells, thus enabling the virus to evade the immune system. Yoav’s latest findings demonstrate how two viruses of the human polyomaviruses family, found in the majority of the human population, use an miRNA mediated mechanism to evade NK cell attack and remain undetected by our immune system. Yoav’s findings were recently published in the Cell Host & Microbe journal. Yoav is currently broadening the scope of his research by investigating the novel field of NK cell recognition of bacteria.
Changes in Death Rates Between 1969 and 2013

Between 1969 and 2013, the age-standardized death rate per 100,000 decreased from 1278.8 to 729.8 for all causes (42.9% reduction; 95% CI, 42.8%-43.0%).

- Stroke: 77.0% reduction
- Heart disease: 67.5% reduction
- Unintentional injuries: 39.8% reduction
- Diabetes: 16.5% reduction
- Cancer: 17.9% reduction
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Left to Right: Prof. Peretz Lavie, Batsheva Shor, Anael Ben-Asher, Ayelet Arazi, Eran Lustig, Itai Linial, Yaron Ben-Ami, David Mass, Adar Adamsky, Yoav Levine, Prof. Nili Cohen, Prof. Moti Segev
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Leon Anavy
PhD student of Prof. Zohar Yakhini, Computer Science Department, Technion – Israel Institute of Technology
Dissertation topic: Computational Challenges in Synthetic Biology

Evgeniy Boyko
PhD student of Prof. Moran Bercovici and Prof. Amir D. Gat, Faculty of Mechanical Engineering, Technion – Israel Institute of Technology
Dissertation topic: Non-Uniform Electroosmotic Flow in Rigid and Elastic Microfluidic Configurations

Shachar Carmeli
PhD student of Dr. Dmitry Gourevitch, Department of Mathematics, Weizmann Institute of Science
Dissertation topic: Harmonic Analysis on Spherical Spaces

Tuvia Gefen
PhD student of Prof. Alex Retzker, Racah Institute of Physics, Faculty of Sciences and Mathematics, The Hebrew University of Jerusalem
Dissertation topic: Quantum Metrology and Computing with NV Centers and Trapped Ions

Bracha Laufer-Goldshtein
PhD student of Prof. Sharon Gannot (Bar-Ilan) and Prof. Ronen Talmon (Technion), Faculty of Electrical Engineering, Bar-Ilan University
Dissertation topic: Manifold Learning Techniques for Source Localization and Array Processing

Ofer Neufeld
PhD student of Prof. Oren Cohen, Department of Physics, The Technion – Israel Institute of Technology
Dissertation topic: Generation of High Harmonics with Fully Tunable Polarization
Inbal Oz
PhD student of Prof. Oded Hod and Prof. Avraham Nitzan, School of Chemistry, Faculty of Exact Sciences, Tel Aviv University
Dissertation topic: Simulating Non-Equilibrium Thermodynamics in Open Quantum Systems

Or Yair
PhD student of Prof. Ronen Talmon, Viterbi Faculty of Electrical Engineering, Technion – Israel Institute of Technology
Dissertation topic: Geometric Learning for Data-Driven Analysis of Dynamical Systems

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Left to Right: Prof. Moti Segev, Prof. Nili Cohen, Dr. Julian Adams and Yoav Levine, presenting himself at the Awarding Ceremony
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Alexander Shleyfman
PhD student of Prof. Carmel Domshlak, Faculty of Industrial Engineering and Management, Technion-Israel Institute of Technology
Dissertation topic: Symmetry Breaking and Operator Pruning in Classical Planning and Beyond

Amitai Yuval
PhD student of Prof. Jake Solomon, Department of Mathematics, The Hebrew University of Jerusalem
Dissertation topic: Geodesics of Positive Lagrangians in Almost Calabi-Yau Manifolds

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Left: Adams Fellows getting to know one another in the lobby
Bottom Left: Prof. Peretz Lavie, lecturing on sleep
Right: Prof. Nili Cohen and Prof. Moti Segev welcoming Dr. Julian Adams
Omri Azencot
PhD student of Prof. Mirela Ben-Chen, Computer Science Department, Technion–Israel Institute of Technology
Dissertation topic: Operator Representations in Geometry Processing

Izchak Baruch Goldshtein
PhD student of Prof. Moshe Lewenstein and Prof. Ely Porat, Department of Computer Science, Bar-Ilan University
Dissertation topic: Polynomial Lower Bounds on Algorithms and Data Structures

Barak Hirshberg
PhD student of Prof. Benny Gerber, The School of Chemistry, The Hebrew University of Jerusalem
Dissertation topic: Structure, Interactions and Dynamics of Many-Atom Systems

Michael Kalyuzhny
PhD student of Prof. Ronen Kadmon, Department of Ecology, Evolution and Behavior, The Hebrew University of Jerusalem and Prof. Nadav Shnerb, Department of Physics, Bar-Ilan University
Dissertation topic: A Theoretical and Empirical Analysis of Factors Affecting the Dynamics and Structure of Ecological Communities.

Michal Natan
PhD student of Prof. Ehud Banin and Prof. Shlomo Margel, Institute of Nanotechnology and Advanced Materials, Bar-Ilan University
Dissertation topic: Synthesis of Rechargeable N-halamine Nanoparticles and Determination of Their Antibacterial and Antibiofilm Activities

Eran Sagi
PhD student of Prof. Yuval Oreg, Department of Condensed Matter Physics, Weizmann Institute of Science
Dissertation topic: Strongly Interacting Topological Phases
Ido Sagi
PhD student of Prof. Nissim Benvenisty, Azrieli Center for Stem Cells and Genetic Research, The Hebrew University of Jerusalem
Dissertation topic: Genetic and Epigenetic Regulation in Human Pluripotent Stem Cells

Yinon Spinka
PhD student of Prof. Ron Peled, Pure Mathematics Department, Tel-Aviv University
Dissertation topic: Mathematical Models of Statistical Mechanics

ANNUAL ADAMS SEMINAR
June 2018

Ayelet Arazy presenting herself and her research to a captivated audience at the awarding ceremony
ADAMS Fellows 2014-2015

Rivka Bekenstein
PhD student of Prof. Mordechai Segev, Faculty of Physics, Technion-Israel Institute of Technology
Dissertation topic: Gravitational Phenomena and Complex Wavepackets in Nonlinear Optical Systems

Sharon Fleischer
PhD student of Dr. Tal Dvir, Dept. of Molecular Microbiology and Biotechnology, Faculty of Life Science, Tel-Aviv University
Dissertation topic: Engineering 3D Cardiac Stem Cell-Based Patches for Treating Heart Diseases

Yannai A. Gonczarowski
PhD student of Prof. Sergiu Hart and Prof. Noam Nisan, Institute of Mathematics, School of Computer Science & Engineering and Center for the Study of Rationality, The Hebrew University of Jerusalem
Dissertation topic: Aspects of Complexity and Simplicity in Economic Mechanisms

Ouri Karni
PhD student of Prof. Gadi Eisenstein, Faculty of Electrical Engineering, Technion-Israel Institute of Technology

Jonathan Mosheiff
PhD student of Prof. Nati Linial, Institute of Computer Science, The Hebrew University of Jerusalem
Dissertation topic: Forbidden Induced Subgraphs and their Structural Implications

Omri Ram
PhD student of Prof. Oren Sadot, Department of Mechanical Engineering, Ben-Gurion University of the Negev
Dissertation topic: Experimental Study of Shock and Blast Wave Interaction with a Rigid Porous Medium.
Eliran Subag
PhD student of Prof. Ofer Zeitouni, Department of Mathematics, Weizmann Institute of Science
Dissertation topic: Extreme Values and Extremal Processes of Gaussian Fields

Einat Seidel Posner
MD/PhD student of Prof. Ofer Mandelbaum, Lautenberg Center for Immunology and Cancer Research, The Hebrew University of Jerusalem
Dissertation topic: Viral Immune Evasion Mechanisms

ANNUAL ADAMS CONFERENCE
February 2019

Professor Yoel Rak guiding a tour of The Fossil Trail: Evidence for Human Evolution exhibition at the Academy
ADAMS Fellows 2013-2014

**Ariel Afek**  
PhD student of Dr. David Lukatsky, Department of Chemistry, Ben-Gurion University of the Negev  
Dissertation topic: Design Principles and Consequences of Nonconsensus Protein-DNA Binding

**Yoav Bauman**  
PhD student of Prof. Ofer Mandelboim, Lautenberg Center for General and Tumor Immunology, the Hebrew University of Jerusalem  
Dissertation topic: Pathogen Recognition by Natural Killer Cells

**Ronen Dar**  
PhD student of Prof. Meir Feder and Prof. Mark Shtaif, School of Electrical Engineering, Tel-Aviv University  
Dissertation topic: Information Theory in Optical-Fiber Communications

**Anna Frishman**  
PhD student of Prof. Gregory Falkovich, Department of Physics of Complex Systems, Weizmann Institute of Science  
Dissertation topic: A Search for Statistical Laws in Turbulent Systems

**Livnat Jerby Arnon**  
PhD student of Prof. Eytan Ruppin, School of Computer Science, Tel-Aviv University  
Dissertation topic: Genome-scale Modelling of Cancer Genetics and Metabolism Towards the Identification of Selective Anticancer Treatments

**Assaf Manor**  
PhD student of Prof. Carmel Rotschild, Faculty of Mechanical Engineering, Technion-Israel Institute of Technology  
Dissertation topic: Thermodynamic Light Management for 3rd Generation Photovoltaics
Sivan Refaely-Abramson
PhD student of Prof. Leeor Kronik, Department of Materials and Interfaces, Weizmann Institute of Science
Dissertation topic: A Generalization of the Optimally-tuned Range-separated Hybrid Scheme to the Solid-state

Liran Rotem
PhD student of Prof. Vitali-Milaman, School of Mathematical Sciences, Tel-Aviv University
Dissertation topic: Asymptotic Geometric Analysis: Log-concavity, α-Concavity, Quasi-Concavity

Eitan Schechtman
PhD student of Prof. Hagai Bergman, The Interdisciplinary Center for Neural Computation (ICNC), the Hebrew University of Jerusalem
Dissertation topic: The Neural Correlates of Basal Ganglia Abnormalities in the Chronic Phencyclidine (PCP) Primate Model of Schizophrenia

Avishay Tal
PhD student of Prof. Ran Raz, Department of Computer Science and Applied Mathematics, Weizmann Institute of Science
Dissertation topic: Analysis of Boolean Functions in Theoretical Computer Science

ANNUAL ADAMS SEMINAR
June 2018

Left to Right: Dr. Julian Adams, Prof. Moti Segev, Prof. Nili Cohen, Adar Adamsky
Festive dinner in the garden
Tslil Ast  
PhD student of Dr. Maya Schuldiner, Department of Molecular Genetics, Weizmann Institute of Science  
Dissertation topic: Uncovering the Translocation and Quality Control Mechanisms of Glycosylphosphatidylinositol (GPL) Anchored Proteins

Assaf Ben Moshe  
PhD student of Prof. Gil Markovich, Department of Chemical Physics, Tel-Aviv University  
Dissertation topic: Chiroptical Effects Induced in Metal and Semiconductor Nanoparticles

Miri Krupkin  
PhD student of Prof. Ada Yonath, Department of Structural Biology, Weizmann Institute of Science  
Dissertation topic: Towards the Determination of the Structure of Mycobacterium Smegmatis Ribosome and Studies on the Properties of the Prebiotic Ribosome

Nir Lazarovich  
PhD student of Prof. Michah Sageev, Department of Mathematics, Technion-Israel Institute of Technology  
Dissertation topic: Non-positively Curved Homogeneous Polygonal Complexes

Or Ordentlich  
PhD student of Prof. Uri Erez, School of Electrical Engineering, Tel-Aviv University  
Dissertation topic: Robust Lattice Schemes for Multi-User Communication Networks

Liel Sapir  
PhD student of Prof. Daniel Harries, Institute of Chemistry and The Fritz Haber Research Center, The Hebrew University of Jerusalem  
Dissertation topic: Modeling Osmolyte-Induced Conformational Changes in Biomacromolecules
David Tsivion
PhD student of Prof. Ernesto Joselevich, Department of Material and Interfaces, Weizmann Institute of Science
Dissertation topic: Guided Growth of Horizontal Nanowires

Erez Zohar
PhD student of Prof. Benni Reznik, School of Physics and Astronomy, Tel-Aviv University
Dissertation topic: Quantum Simulations of Quantum Field Theories

ANNUAL ADAMS CONFERENCE
February 2019

Culmination of the grand fossil tour with a group photo in the lobby
Yoav Bauman was born and raised in Jerusalem. During high school, Yoav became increasingly interested in the life sciences field and subsequently decided to major in biology. Following his military service as a combat soldier he started his studies in the Life Sciences undergraduate program at the Hebrew University where he graduated magna cum laude. During his studies, Yoav became acquainted with the field of Immunology and was amazed by the complexity of the immune system and how little is known about the interaction of immune cells with pathogens. In order to pursue these topics, Yoav joined Ofer Mandelboim’s laboratory in the third year of his BSc studies and continued to his PhD in the direct track. Mandelboim’s lab investigates the biology of Natural Killer (NK) cells which are part of the innate immune system. NK cells provide the first line of defense against virally infected or cancerous cells by rapidly killing these hazardous cells. NK cell recognition of the virally infected cells is the first and pivotal process in the execution of NK cell killing. Yoav’s research focused on viral mechanisms hampering the ability of NK cell recognition of infected cells, thus enabling the virus to evade the immune system. Yoav’s latest findings demonstrate how two viruses of the human polyomaviruses family, found in the majority of the human population, use an miRNA mediated mechanism to evade NK cell attack and remain undetected by our immune system. Yoav’s findings were recently published in the Cell Host & Microbe journal. Yoav is currently broadening the scope of his research by investigating the novel field of NK cell recognition of bacteria.
Doron Puder
PhD student of Prof. Nati Linial, Einstein Institute of Mathematics, The Hebrew University of Jerusalem
Dissertation topic: The Combinatorial, Algebraic and Topological Aspects of Word Maps

Eran Small
PhD student of Prof. Yaron Silberberg, Department of Physics of Complex Systems, Weizmann Institute of Science
Dissertation topic: Statistical Properties of Light Propagating in Non-Linear Systems

Hadas Soifer
PhD student of Prof. Nirit Dudovich, Department of Physics of Complex Systems, Weizmann Institute of Science
Dissertation topic: Probing Electronic Wavefunctions via High Harmonic Generation

Amir Wand
PhD student of Prof. Sanford Ruhman, Department of Chemistry, The Hebrew University of Jerusalem
Dissertation topic: Investigation of the Photochemistry of Retinal Proteins and Model Systems Using Novel Techniques of Ultrafast Spectroscopy: Resolving the Dynamics as well as Structural Information of the Excited States
Avital Adler
PhD student of Prof. Hagai Bergman, Interdisciplinary Center for Neural Computation (ICNC), The Hebrew University of Jerusalem
Dissertation topic: Value Encoding in the Striatum in View of Serotonin Neurotransmission

Leonid Barenboim
PhD student of Prof. Michael Elkin, Department of Computer Science, Ben-Gurion University of the Negev
Dissertation topic: Efficient Network Utilization in Locality-Sensitive Distributed Algorithms

Arren Bar-Even
PhD student of Prof. Ron Milo, Department of Plant Sciences, Weizmann Institute of Science
Dissertation topic: The Design, Analysis and Testing of Synthetic Carbon Fixation Cycles

Omer Bobrowski
PhD student of Prof. Robert J. Adler, Department of Electrical Engineering, Technion-Israel Institute of Technology
Dissertation topic: Some Topics in the Algebraic Topology of Random Fields

Ronit Bustin
PhD student of Prof. Shlomo Shamai, Department of Electrical Engineering, Technion-Israel Institute of Technology
Dissertation topic: The I-MMSE approach for Multi-Terminal Problems in the Gaussian Regime

Klim Efremenko
PhD student of Prof. Amnon Ta-Shma and Prof. Oded Regev, Department of Computer Science, Tel-Aviv University
Dissertation topic: Algebraic Constructions in Computational Complexity
Yoav Livneh
PhD student of Prof. Adi Mizrahi, Department of Neurobiology, The Hebrew University of Jerusalem
Dissertation topic: Adult Neurogenesis: From Synapse Formation, Through Sensory Coding to Animal Behavior

Itai Roffman
PhD student of Prof. Eviatar Nevo and Prof. Avraham Ronin, The International Graduate Center of Evolution, University of Haifa
Dissertation topic: Studying Suite of Homo Traits in Pan: Supporting Cultural and Genetic Evidence for their Inclusion in Homo Genus

Yoav Oved Rosenberg
PhD student of Prof. Jiwchar Ganor, Department of Geological and Environmental Sciences, Ben-Gurion University of the Negev
Dissertation topic: The Fate of Radium in Evaporitic Systems

Osip Schwartz
PhD student of Prof. Dan Oron, Department of Physics of Complex Systems, Weizmann Institute of Science
Dissertation topic: Nonlinear Microscopy with Nanoparticles

Adi Sheinfeld
PhD student of Prof. Avishay Eyal, Electrical Engineering, Tel-Aviv University
Dissertation topic: Optical Detection of Alzheimer’s Disease Via Ocular Spectroscopy

Avital Swisa
PhD student of Prof. Yuval Dor, Department of Developmental Biology and Cancer Research, The Faculty of Medicine, The Hebrew University of Jerusalem
Dissertation topic: Role of LKB1 in Pancreatic Beta Cell Dynamics
Monther Abu-Remaileh
PhD student of Prof. Yehudit Bergman, Human Genetics, The Hebrew University of Jerusalem
Dissertation topic: Understanding the Molecular Mechanism of Oct-3/4 Oncogenicity

Danny Ben-Zvi
PhD student of Prof. Naama Barkai and Prof. Ben-Zion Shilo, Molecular Genetics, Weizmann Institute of Science
Dissertation topic: Scaling and Robustness in Embryonic Development

Oded Berger-Tal
PhD student of Prof. David Saltz, Desert Ecology, Ben-Gurion University of the Negev
Dissertation topic: Movement Ecology of Persian Fallow Deer

Ronen Gabizon
PhD student of Prof. Assaf Friedler, Institute of Chemistry, The Hebrew University of Jerusalem
Dissertation topic: Activating Proteins by Shifting their Oligomerization Equilibrium: A New Approach to Drug Design

Alex Hayat
PhD student of Prof. Meir Orenstein, Faculty of Electrical Engineering, Technion-Israel Institute of Technology
Dissertation topic: Applications of Multi-Photon Processes for Semiconductor for Quantum Photonics.

Efrat Mashiach
PhD student of Prof. Haim Wolfson and Prof. Ruth Nussinov, School of Computer Science, Tel-Aviv University
Dissertation topic: Structural Bioinformatics: Flexible Molecular Docking
Or Meir
PhD student of Prof. Oded Goldreich, Department of Computer Science and Applied Mathematics, Weizmann Institute of Science
Dissertation topic: Combinatorial Construction of Probabilistic Proof Systems

Moshe Mishali
PhD student of Prof. Yonina Eldar, Faculty of Electrical Engineering, Technion-Israel Institute of Technology
Dissertation topic: Compressive Processing of Analog Signals

Uri Roll
PhD student of Prof. Lewi Stone, Department of Zoology, Tel-Aviv University
Dissertation topic: Spatial Perspectives of Epidemiological and Ecological Problems

Sivan Sabato
PhD student of Prof. Naftali Tishby, School of Computer Science and Engineering, The Hebrew University of Jerusalem.
Dissertation topic: Supervised Learning with Partial Information

Efrat Shema
PhD student of Prof. Moshe Oren, Department of Molecular Cell Biology, Weizmann Institute of Science
Dissertation topic: RNF20 as a Novel Tumor Suppressor: Exploring its Roles in Transcriptional Regulation, Formation and Progression of Cancer, Senescence and Development
Keren Censor  
PhD student of Prof. Hagit Attiya, Computer Science Department,  
Technion-Israel Institute of Technology  
Dissertation topic: Probabilistic Methods in Distributed Computing

Emanuele Dalla Torre  
PhD student of Dr. Ehud Altman, Department of Condensed Matter Physics, Weizmann Institute of Science  
Dissertation topic: Strongly Correlated States in Ultra-cold Atoms

Noam Gross  
PhD student of Prof. Lev Khaykovich, Department of Physics, Bar-Ilan University  

Ishay Haviv  
PhD student of Prof. Oded Regev, School of Computer Science, Tel-Aviv University  
Dissertation topic: Combinatorics and Theoretical Aspects of Computer Sciences; Complexity of Lattice Problems

Amir Ingber  
PhD student of Prof. Meir Feder, School of Electrical Engineering, Tel-Aviv University  
Dissertation topic: Coding Methods and Bounds for the Bandwidth Limited Regime

Mor Mordechai Peretz  
PhD student of Prof. Shmuel Ben-Yaakov, Department of Electrical & Computer Engineering, Ben-Gurion University of the Negev  
Dissertation topic: Time Domain Design of Digital Controllers for PWM Converters
Michael Orlov
PhD student of Prof. Moshe Sipper, The Department of Computer Science, Ben-Gurion University of the Negev
Dissertation topic: Evolutionary Computation

Eran Segev
PhD student of Prof. Eyal Buks, Faculty of Electrical Engineering, Technion-Israel Institute of Technology
Dissertation topic: Back-Reaction Cooling and Quantum Phenomena in Nanomechanical Resonators

Gil Segev
PhD student of Prof. Moni Naor, Department of Computer Science and Applied Mathematics, Weizmann Institute of Science
Dissertation topic: The Complexity of Resilient Sketches

Reut Shema
PhD student of Prof. Yadin Dudai, Department of Neurobiology, Weizmann Institute of Science
Dissertation topic: The Role of PKMzeta in Long Term Memory Storage in the Rat Brain
Avraham Ben-Aroya
PhD student of Prof. Oded Regev and Prof. Amnon Ta-Shma, School of Computer Science, Tel-Aviv University
Dissertation topic: Quantum Computation and Quantum Information

Shai Carmi
PhD student of Prof. Shlomo Havlin, Department of Physics, Bar-Ilan University
Dissertation topic: Complex Networks: Theory and Applications

Chen Davidovich
PhD student of Prof. Ada Yonath, Department of Structural Biology, Weizmann Institute of Science
Dissertation topic: Ribosome Structure and Function

Shahar Dobzinski
PhD student of Prof. Noam Nisan, School of Computer Science and Engineering, The Hebrew University of Jerusalem
Dissertation topic: The Power of Approximations in Mechanism Design

Moshe Goldstein
PhD student of Prof. Richard Berkovits, Department of Physics, Bar-Ilan University
Dissertation topic: Interference Effects in Interacting Mesoscopic Systems

Amir Goren
PhD student of Prof. Gil Ast, Department of Human Molecular Genetics and Biochemistry, Tel-Aviv University
Dissertation topic: Inferring Regulatory Elements of Splicing Using Comparative Genomics
Dan Hermelin
PhD student of Prof. Gad M. Landau, Department of Computer Science, University of Haifa
Dissertation topic: Algorithmic Challenges in RNA Comparative Analysis

Yoav Lahini
PhD student of Prof. Yaron Silberberg, Faculty of Physics, Weizmann Institute of Science
Dissertation topic: Disordered Nonlinear Systems

Guy Ron
PhD student of Prof. Eliezer Piasetzky, Department of Physics, Tel-Aviv University
Dissertation topic: Measurement of the Proton Elastic Form Factors at Low Q2

Avraham Saig
PhD student of Prof. Ehud Ahissar and Dr. Amos Arieli, Department of Neurobiology, Weizmann Institute of Science
Dissertation topic: Guiding Principles for Sensory Substitution: From Vision to Touch

Alexander Sodin
PhD student of Prof. Vitali Milman, School of Mathematical Sciences, Tel-Aviv University
Dissertation topic: Probabilistic Methods in Asymptotic Geometric Analysis
Haim Beidenkopf
PhD student of Prof. Eli Zeldov, Faculty of Physics, Weizmann Institute of Science
Dissertation topic: Vortex Thermodynamics in High-Temperature Superconductors

Liat Benmoyal Segal
PhD student of Prof. Hermona Soreq, Department of Biological Chemistry, and Professor Hagai Bergman, Physiology, The Hebrew University of Jerusalem
Dissertation topic: The Role of the Cholinergic System in the Pathogenesis of Parkinson's Disease

Yael Elbaz
PhD student of Prof. Shimon Schuldiner, Department of Biological Chemistry, The Hebrew University of Jerusalem
Dissertation topic: Structure-Function Study of Multidrug Transporters

Olga Khersonsky
PhD student of Prof. Dan Tawfik, Faculty of Chemistry, Weizmann Institute
Dissertation topic: Mechanistic Enzymology: From Classical Tools to Directed Evolution

Dana Moshkovitz
PhD student of Prof. Ran Raz, Faculty of Mathematics and Computer Science, Weizmann Institute
Dissertation topic: Probabilistically Checkable Proofs

Ariel Procaccia
PhD student of Prof. Jeffrey S. Rosenschein, School of Computer Science and Engineering, The Hebrew University of Jerusalem
Dissertation topic: The Theoretical Foundation of Multi-agent Systems (MAS)
**Carmel Rotschild**  
PhD student of Prof. Moti Segev, Physics Department, Technion-Israel Institute of Technology  
Dissertation topic: Soliton Interactions in Nonlocal Nonlinear Media

**Ofer Shayevitz**  
PhD student of Prof. Meir Feder, School of Electrical Engineering, Tel-Aviv University  
Dissertation topic: Universal Communications with Feedback

**Amir Shlomai**  
MD/PhD student of Prof. Yosef Shaul, Faculty of Biochemistry, Weizmann Institute  
Dissertation topic: Metabolic Alterations in the Liver and Hepatitis B Virus Gene Expression

**Noam Stern**  
PhD student of Prof. Ofer Mandelboim, The Lautenberg Center for Immunology and Cancer Research, The Hebrew University of Jerusalem  
Dissertation topic: Natural Killer (NK) Cells
Yael Eshed-Eisenbach
PhD student of Prof. Elior Peles, Department of Molecular Cell Biology, Weizmann Institute of Science
Dissertation topic: Neuro-Glial Interactions

Nathan Keller
PhD student of Prof. Gil Kalai, Einstein Institute of Mathematics, The Hebrew University of Jerusalem
Dissertation topic: Probabilistic Combinatorics and its Relations with Harmonic Analysis

Tal Lev-Ami
PhD student of Prof. Shmuel Sagiv, School of Computer Science, Tel-Aviv University
Dissertation topic: Efficient Transformers for the Verification of Heap Manipulating Programs

Raz Palty
PhD student of Dr. Israel Sekler, Department of Physiology and Cell Biology, Ben-Gurion University of the Negev
Dissertation topic: Characterization of the Novel Exchanger NCLX – a FLJ2233 Gene Product

Sharon Shwartz
PhD student of Prof. Moti Segev, Physics Department, Technion-Israel Institute of Technology
Dissertation topic: Nonlinear Optics in CZT:V