קורס פרויקטים
בمهندسיה בי-רפואית
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Epileptic Seizures Prediction Based on ECG Signals

Using Machine Learning Methods

Under the supervision of Mr. Noam Keidar and Prof. Yael Yaniv
Bio-electric and Bio-energetic Systems Laboratory

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Mother-Child Brain to Brain Synchrony During Joint Story-Telling

Under the supervision of Prof. Tzipi Horowitz-Kraus
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Wurod Abu Elasal
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The Association Between Mother-Child Speech Synchrony During Dialogic Reading and Child’s Cognitive Skills

Under the supervision of Prof. Tzipi Horowitz
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Maysaloon Barasni
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Atrial Blood Pressure Waveform Clustering

Under the supervision of Dr. Danny Eytan
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Jonathan Horev
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Big-Data based analysis of sinoatrial node rejuvenation attempts

Under the supervision of: Prof. Yael Yaniv
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Gal Shofel
Yonat Chen
Mood Tracking App for Cancer Patients Undergoing Immunotherapy

Under the supervision of Prof. Yosef Shamay
Cancer Nanomedicine and Nanoinformatics Lab
Biosensor for Detecting of Hematuria

Under the supervision of Natali Pesakh
The Laboratory for Synthetic Biology & Bioelectronics

Dima Wakim
Hadeel Abu Assad
Separation of Multiple Motor Memories through Implicit and Explicit Processes

Under the supervision of: Asst. Prof. Firas Mawase  
Neurorehabilitation and Sensorimotor Neuroscience Lab
ECoG-based Intraoperative Functional Mapping of the Cerebral Cortex During Awake Craniotomies

Under the supervision of Prof. Firas Mawase, Dr. Omer Zarchi and Mr. Shaked Ron
Neurorehabilitation and Sensorimotor Neuroscience Lab and Rabin Medical Center

Leen Ileimi
Taima Zoabi
An MRI Compatible 3D Printed Split-belt Treadmill for Motor Neuroscience Research

Under the supervision of: Assist.Prof Firas Mawase
Neurorehabilitation & Sensorimotor Neuroscience Lab

Tania Assaf
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Reorganization of functional networks following MRI-guided focused ultrasound treatment in essential tremor patients

Under the supervision of: Assistant Professor Firas Mawase
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Daniel Olshvang
Or Motzary
Identification and Quantification of Synapses from Images of Expanded Brain

Under the supervision of: PhD Limor Freifeld
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Sapir Noah
Tali Marchevsky
Quantitative DW-MRI analysis algorithms

Under the supervision of: Dr. Moti Freiman
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Marina Khizgilov
Visualization Software for Pediatric Crohn’s Disease Assessment by Multi Planar Reformation

Under the supervision of: Dr. Moti Freiman
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Yael Zaffrani
Develop of Diagnostic System for Preventing Sudden Cardiac Death among Athletes

Under the supervision of Mr Ido Weiser-Bitoun, Prof Yael Yaniv

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Nimrod Baram
Detecting heart abnormalities using a novel platform of digitized 12-lead ECG

Under the supervision of Prof. Yael Yaniv
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May Buzaglo
Nitzan Avidan
Development of a Non-Invasive Clinical Tool for Analyzing SAN & ANS Function and Identifying Cardiac Pathologies

Under the supervision of Prof. Yael Yaniv
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MRI Brain Tumor Segmentation

Under the supervision of Prof. Moti Freiman
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Brain Tumor MRI Image Segmentation

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Michaela Ayoun
Feasibility of Ultrasonic Thermal Monitoring Using Coded Excitations for Focused Ultrasound Hyperthermia

Under the supervision of: Prof. Haim Azhari And PhD Candidate Daniel Dahis
Medical Imaging Lab- Department of Biomedical Engineering

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Tomer Romano
Disease diagnosis based on Bio markers
Using tagged proteins transport through Nano-Pore system and Machine learning
Under the supervision of Prof. Amit Meller
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Oren Shorr

SARS2-Covid19 protein identification
Random Tree-Alzheimer classification
Signal Normalization
SVM
Single molecule tri-color fluorescence intensity traces
Laser Speckle Contrast Imaging In Biomedical Optics

Under the supervision of: Michal Zivan¹, Yokhai Dan², Rami Shinnavi²

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Compact spectrally encoded interferometry probe for imaging acoustic vibrations in the human tympanic membrane

Under the supervision of: Matan Hamra and Prof. Dvir Yelin
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Lidan Fridman
A Low-Cost 3D Printed Prosthetic Hand For Transhumeral Amputations

Under the supervision of: Yoav Medan
Haifa3D

Niv Rebhun
Sofia Rozenberg
A MODULAR, TASK SPECIFIC END EFFECTOR FOR A LOW-COST 3D PRINTED PROSTHETIC HAND

Under the supervision of: Mr. Yair Herbst and Dr. Yoav Medan
Haifa 3D

Ayala Goldstein
Fully Automatic Adjustable CAD Model of a Wrist Powered, Low-cost, 3D Printed Prosthetic Hand

Under the supervision of: Yair Herbst and Dr. Yoav Medan

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Mark Kels
Effect of Drag Reducing Polymers (DRPs) on Recirculation and the Deposition of Nano-Particles in Human Arterial Models

Under the supervision of: Prof. Netanel Korin and Dr. Maria Khoury
Cardiovascular Nanomedicine Engineering Lab

Neta Tuaf
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Under the supervision of: Moran Levi and Prof Netanel Kotin

Omer Gottlieb
Or Mizrahi
CFD Model
In Vitro Model
Remote Speech Therapy
And Self Practice Device

Roni Keshet, Marina Tulchinsky and Ori Shahar
Under the supervision of: Mr. Shaked Ron, Dr. Oscar Lichtenstein

Roni Keshet
Ori Shahar
Marina Tulchinsky
Optimization of Dual Drug Co-Encapsulation in Cancer Targeted Nanoparticles

Under the supervision of Prof. Yosi Shamay
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Sanaa Dallashi
Amjad Marie
Increased Extracellular Vesicle (EV) Production From 3D Engineered Skeletal Muscle Tissue Under Mechanical Stretching

Under the supervision of: Prof. Shulamit Levenberg
Stem Cell and Tissue Engineering Laboratory

Tahel Carmon
Adina Israel Fried
The effects of natural remedies on the invasiveness of metastatic cancer cell

Under the supervision of prof. Daphne Weihs
Mechano-biology engineering Lab

Stav Elkabetz
Developing an Optimized Method for Efficient Automated NP Preparation and Characterization

Under the supervision of: Prof. Yosi Shamay, Maytal Avrashami and Yuval Harris
Shamay Lab

Yarden Roth
Wearable Diagnostic Patch for Monitoring Health Status

Under the supervision of: Dr. Youbin Zheng
Laboratory for Nano-Material Based Devices

Jalil Bishara

Nadi Hathot
Effects of Cancer Conditioned Medium of High Metastatic Cells on The Invasive Behaviour of low-Metastatic Pancreatic Cancer

Under the supervision of Prof. Daphne Weihs
Mechanobiology of cancer and wounds

Liubov Akselrod
Recombinant p27 Liposomal Drug

Intended to Inhibit the Uncontrolled Proliferation of Cancerous Cells

Under the supervision of: Prof. Avi Schroeder
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בצלחת לכולם!!!