R E S U M E

Full name: Jonathan Gross

Tel: +972-523-549-291

E-mail: ijdm10@gmail.com

Place of birth: Israel

ACADEMIC DEGREES

2018-present	MD-PhD Candidate, Supervisor: Associate Prof. Ruth Hershberg, Lab of Evolutionary Genomics, Genetics Department, Rappaport Faculty of Medicine, Technion – Israeli Institute of Technology. *Dissertation Topic* - **"Selection on synonymous sites within tumors".** Current GPA: 98.2
2016-2018	MD-PhD Candidate, Supervisor: Assist. Prof. Dori Derdikman, Lab of Spatial Perception and Memory, Neuroscience Department, Rappaport Faculty of Medicine, Technion – Israeli Institute of Technology. *Dissertation Topic* - **"Affecting grid cells characteristics with targeted stimulation of local inhibitory population".**
2013-2016	B.Sc, Medical Science (*Cum Laude*), Rappaport Faculty of Medicine, Technion-Israel Institute of Technology. GPA: 90.2

PROFESSIONAL EXPERIENCE

2017	ELSC International School in "In-vivo Intracellular Recordings", The Hebrew University of Jerusalem.
2015-2016	Research Assistant, Assist. Prof. Dori Derdikman, Lab of Spatial Perception and Memory, Neuroscience Department, Faculty of Medicine, Technion.
2014	Research Assistant, Assist. Prof. Izhak Kehat, Molecular Cardiovascular System Research Lab, Physiology Department, Faculty of Medicine, Technion.

TEACHING EXPERIENCE

2017-2018	Teaching Assistant Histology Course for Medical Students (undergraduate), Prof. Ruby Shalom-Feuerstein, Faculty of Medicine, Technion.

FELLOWSHIPS, AWARDS AND HONORS

2017-2018	Excellence Scholarship Dean's Support
2016 - present	Ph.D. fellowship of Excellence, MD-PhD Special Program, Rappaport Faculty of Medicine, Technion–Israeli Institute of Technology.
2016	B.Sc Graduate *Cum Laude* Award, Faculty of Medicine, Technion.
2015-2016	Research Student Scholarship, Rappaport Faculty of Medicine, Technion.
2013-2016	*Cum Laude* Awards, Dean's list, Faculty of Medicine, Technion.

RELEVANT COURSES

Data Analysis for Biomedicine (MATLAB), MATLAB Programming for Medical Students, Biostatistics, Advance Methods in Biostatistics.

SKILLS AND EXPERTISE

Caring and maintaining laboratory rodents.

Training animals to perform complex behavioral tasks.

Reviewing scientific manuscripts.

Use of video tracking system for whole subjects and LED tracking ('Cheetah' by Neuralynx).

Detailed MATLAB analysis of behavioral and neural data series.

Designing and implanting electrophysiological micro-drives.

Performing stereotactic implantations to hippocampus and medial entorhinal cortex in rodents.

Electrophysiological recordings of freely-moving rodents in a single unit resolution combined with Chemogenetics (DREADDs) or Optogenetics.

Performing stereotactic viral injections to hippocampus and medial entorhinal cortex in rodents.

Molecular biology techniques: qPCR, PCR, cloning, transfections, infections, Western blot, tissue culture, and transformations.

SPECIAL ACTIVITIES

MEMBERSHIP IN PROFESSIONAL SOCIETIES

INTERNATIONAL: Federation of European Neuroscience Societies (**FENS**)

NATIONAL: The Israel Society for Neuroscience (**ISFN**); Israel Society for Medical and Biological Engineering (**ISMBE**)

VOLUNTEER EXPERIENCE

2011-2014   Physicians for Human Rights Clinic, Tel Aviv-Jaffa.

2012   Division of Geriatrics, Director Dr. Yaffa Lerman, Ichilov Hospital Tel Aviv.

PUBLIC ACTIVITY AS STUDENT REPRESENTATIVE

2016-present   Active player at the Technion water-polo team.

<u>PERSONAL ATTRIBUTES</u>

Good at both team work and working independently, highly motivated, practical.