

**YURI FELDMAN, PhD**  
**HEBREW UNIVERSITY OF JERUSALEM UNIVERSITY**  
 October, 2022



## CURRICULUM VITAE

### PERSONAL DETAILS

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 Marital Status (No. of Children): Married, 1 child

### EDUCATION

Name of Institution	Subject	Degree	Date of Award
Kazan State University, Kazan, USSR	Radiophysics	<b>MSc</b> in Physics	1973
Kazan State University, Kazan, USSR	Molecular Physics	<b>PhD</b> in Physics	1981

**Title of Master's Thesis:** Dielectric relaxation of amino acids in aqueous solutions  
**Supervisor:** Prof. N. V. Sedyh, Kazan State University, Kazan, USSR  
**Title of Doctoral Thesis:** Time domain spectroscopy and molecular motion in liquids  
**Supervisor:** Prof. V.V. Levin, Moscow State University, Moscow, USSR

### ACADEMIC AND PROFESSIONAL EXPERIENCE

**2008-present** Director of the CERC, The Hebrew University of Jerusalem; The Israel Center for Electromagnetic Research & Characterization (CERC)  
**2004-present** Full Professor of the Institute of Applied Physics, The Hebrew University of Jerusalem  
**1998-2004** Associate Professor of the Department of Applied Physics, The School of Applied Science of the Hebrew University of Jerusalem and from 2003 The School of Computer Science and Engineering of the Hebrew University of Jerusalem  
**1999-2003** Head of the Department of Applied Physics; the School of Applied Science of the Hebrew University of Jerusalem  
**1993 - 1998** Senior lecturer of the Department of Applied Physics, The School of Applied Science of The Hebrew University of Jerusalem  
**1991-1993** senior researcher of the School of Applied Science of the Hebrew University of Jerusalem  
**1983-1990** Head of the dielectric spectroscopy group in the Laboratory of Molecular Biophysics - Kazan Institute of Biology of the USSR Academy of Sciences.  
**1986-1990** senior researcher, assistant chief of the Laboratory of Molecular Biophysics of the same institute.  
**1983-1986** junior researcher of the Laboratory of Molecular Biophysics of the same institute.  
**1979-1983** junior research worker of the Plant Physiology laboratory - Kazan Institute of Biology of the USSR Academy of Sciences.  
**1975-1979** senior engineer of the same laboratory  
**1973-1975** senior laboratory assistant of the same laboratory

## **HONORS AND AWARDS**

**2011** Windows on Science (WOS) Air Force Office of Science Research (AFOSR, EOARD) Award  
**2010** The Special Award of State of Israel for the outstanding contribution to the development of Israel Science in physics  
**1998** The Kaye Award for best innovation and invention  
**1993-1996** Guastello Fellowship  
**1992-1995** Wolfson Fellowship  
**1992** The Award of Minister of Science and Technology of Israel  
**1983** The diploma of the USSR Academy of Sciences for the best junior work **1979-1989** The awards of Kazan Institute of Biology of the USSR Academy of Sciences  
**1973** The Award of Kazan State University for the best MSC thesis

## **RESEARCH AREAS**

- Broad Band Dielectric Spectroscopy in time and frequency domain;
- Dielectric polarization and relaxation in Soft Condensed Matter;
- Transport, relaxation and strange kinetics in Complex disordered materials;
- Dielectric properties of biological systems in vitro and in vivo.
- The Unexplored Avenues of Human Skin; Electromagnetic Properties in the Sub THz band

## **PUBLIC ACTIVITIES**

**2016-present** Member of the International Dielectric Society Board  
**2002-2016** Secretary and Member of the International Dielectric Society Board  
**2003-2009** Associated member of the board of Dielectric Group of Institute of Physics, UK  
**2012-2014** Member of the International Advisory Board of the 8<sup>th</sup> Dielectric spectroscopy conference, BDS2014  
**2010-2012** Member of the International Advisory Board of the 7<sup>th</sup> Dielectric spectroscopy conference, BDS2012  
**2008-2010** Member of the International Advisory Board of the 6<sup>th</sup> Dielectric spectroscopy conference, BDS2010  
**2006-2008** Member of the International Advisory Board of the 5<sup>th</sup> Dielectric spectroscopy conference, BDS2008  
**2004-2006** Member of the International Advisory Board of the 4<sup>th</sup> Dielectric spectroscopy conference, BDS2006  
**2002-2004** Member of the International Advisory Board of the 3<sup>d</sup> Dielectric spectroscopy conference, BDS2004  
**2004** Member of the International Advisory Board of IOP conference on Dielectrics at Meso and Nano Scales  
**2002** Member of the International Advisory Board of the 2<sup>nd</sup> Dielectric spectroscopy conference, BDS2002  
**2002** Member of technical steering committee of the 4<sup>th</sup> International Symposium on Humidity and Moisture (Taiwan)  
**2001-present** Member of the board of the International Society for Electromagnetic Aquametry (ISEMA)  
**2001** The Chairman of the 1<sup>st</sup> International Dielectric Spectroscopy Conference DS2001 (March 2001, Jerusalem)  
**2000-2006**, Chairman of Israel Dielectric Society  
**1998-present**, Member of the International Advisory Board of the Dielectric and Related Process Conferences

**1997-present** Member of the International Advisory Board International Meetings of Relaxation in Complex System

**1994-present** Member of American Chemical Society

**1992-2000** Member of the UK Dielectric Society

### **INDUSTRIAL ACTIVITIES**

**2014-2016** The founder and the Chief Scientist of Neteera LTD (Jerusalem, Israel)

**2013-2018** The Scientific Advisor of Biovotion LTD, (Zurich, Switzerland).

**2006-2011** Member of the Scientific Advisory board of Solianis Monitoring LTD, (Zurich, Switzerland).

**2001-2005** Member of the Scientific Advisory board of Pendragon Medical LTD, (Zurich, Switzerland).

**2001-2010** Member of the Scientific Advisory board of IDC Expertise LTD, (Leicester, UK)

**1993 - 1997** The founder and the Chief Scientist of the company DIPOLE TDS Ltd. (Jerusalem, Israel).

### **STUDENTS**

**The following have been graduated under my direct supervision:**

32 M.Sc. Students, 17 Ph.D. Students, 11 Postdoc students

#### **Current:**

**MSc Students:** Leonid Davidov, Roman Zemnuha, Guy Levy, Lama Tarabeih

**PhD Students:** Cindy Juliette Galindo, Yael Beilinson

**Post Dock Students:** Dr. Noa Betzalel

### **PUBLICATIONS**

**174 refereed papers, 14 Patents, above 230 Conference and proceeding papers, 100 invited and plenary talks at international conferences and 98 at seminars.  
h-index 43.**

### **ACADEMIC AND PROFESSIONAL GRANTS (for the last 5 years)**

<b>Date (From To)</b>	<b>Research Topics</b>	<b>Funding Organization</b>	<b>Total NIS (HUJI Part)</b>
2022-2026	Exposure to electromagnetic fields (EMF) and health	Horizon Europe - COLLABORATIVE	903,141
<i>Comment</i>	Next Generation Integrated Sensing and Analytical System for Monitoring and Assessing Radiofrequency Electromagnetic Field Exposure and Health		
2021-2022	Double resonance frequency microwave setup for quantitative measurements of the maternal blood's HbF portion	Israel Innovation Authority	519,605
<i>Comment</i>	Screening of fetal-maternal hemorrhage at the point of care: New method & device		
2021-2023	Microwave Dielectric Study of the RBC cells	Amazon	423,579

<i>Comment</i>	The Microwave Dielectric Study of the RBC exposed D-glucose under influence Cytochalasin B as an inhibitor of glucose uptake; study the impact of the intracellular ion composition on the dielectric response of the cytosol water under glucose uptake		
2019-2022	The study of water response on the formation of fat bubbles in milk during pregnancy	State of Israel Ministry of Agriculture & Rural Development	646,709
<i>Comment</i>	Development of a sensor to monitor the size of milk fat bubbles for the purpose of monitoring reproductive events in dairy cows with the help of a sensor based on microwave technology		
2018-2021	The role of water in the aging of Red Blood Cells	Israel Science Foundation	837,063
<i>Comment</i>	The role of water in the aging of Red Blood Cells		
2018-2021	RBC aging and Dielectric response of water in MW	Swiss National Science Foundation	3,992,345
<i>Comment</i>	Pre-membrane and cytosolic water as a marker of red blood cell aging in vivo and in vitro		
2018-2019	Ice and glass formation during recrystallization in deep freeze food samples	Yissum in collaboration with Agrinnovation	314,233
<i>Comment</i>	Smart packaging sensors for reducing food waste		
2016-2019	Solid-State Rechargeable 3D-Microbattery	Ministry of Science and Technology (MOST)	280,450
<i>Comment</i>	Novel All-Solid-State Rechargeable 3D-Microbattery on 3D-Printed Perforated Polymer Substrate		
2014-2018	The study of ice formation in different creams under cooling	Yissumiot Grant of the Hebrew University of Jerusalem	612,194
<i>Comment</i>	Loreal		