

HIT - HOLON INSTITUTE OF TECHNOLOGY

Date: 17th April 2023

Name GILI PELEG Ph.D. 057900979
(first) (last) (acad. degree) No. id. Card

Faculty Multidisciplinary Studies **Department** _____

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(home) (work) (mobile)

Date/place of birth 9/9/1962 Israel **Date of arrival in Israel** -
(date) (country)

ZAHAL, (Israeli) Military Service 1980 - 1982
dates (enlisted) (discharged)

Marital Status Married **No. of children** two

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A. EDUCATION

Period of Study (dates)	Name of University (including city and country if not in Israel)	Subject	Degree or Professional Licence	Date of Award
1982-1985	The George S. Wise Faculty of Life Sciences, Tel-Aviv University	Life Sciences	B.Sc. ❶	1/4/1986
1986-1990	The George S. Wise Faculty of Life Sciences, Tel-Aviv University	Zoology	M.Sc.	3/5/1990
1990-1991	Medical School, Technion – Israel Institute of Technology	Medicine	Ph.D. ❷	Studies not completed
2003-2007	Institute of Evolution, University of Haifa	Evolution	Ph.D. Summa Cum Laude	29/5/2008

Title of Master's Thesis: Social and reproductive behavior of *Pterocles Alchata* (pin-tailed sandgrouse) in captivity

Name of Supervisors: The late Prof. Amotz Zahavi; The late Dr. Dafna Lavie

Title of Doctoral Dissertation: The hereditary basis of facial expression

Names of Supervisors: Prof. Eviatar Nevo; Prof. Gadi Katzir

❶ Received commendation for excellence in research, distinction at end of second year

❷ Dissertation: Racemization of aspartic acid in structural proteins, under supervision of Prof. Michael Zilberman; Dr. Dorit Arad. Received commendation for excellence in research, distinction at end of first year

B. FURTHER STUDIES

Period of Study (dates)	Name of University (including city and country if not in Israel)	Subject	Degree or Professional Licence	Date of Award
4/2017-1/2020	Institute of Evolution, University of Haifa	Evolution ^⑤	Research Associate	

⑤ Topic of study: Nonverbal communication of chimpanzee in extreme climate conditions as a strategy of survival. Ongoing research study

C. ACADEMIC AND PROFESSIONAL EXPERIENCE

Period (dates)	Name of Institution (city, country)	Department	Rank/Function
1985-1986	Tel-Aviv University, Tel-Aviv, Israel	Faculty of Life Sciences - Zoology	Teaching Assistant; Study tour guide – Garden for Zoological Research, and Abu Kabir Zoological Garden
1986-1990	Tel-Aviv University, Tel-Aviv, Israel	Faculty of Life Sciences - Zoology	Teaching Assistant
1990-1991	Technion – Israel Institute of Technology, Haifa, Israel	Medical School	Teaching Assistant
2008-2010	Ruppin Academic Center, Israel	Behavioral Sciences	Adjunct Lecturer
2009-2010	Tel-Aviv University, Israel	The Young Persons' Institute for the Promotion of Creativity and Excellence (Erika Landau)	Lecturer ^④
2011	The Open University, Israel	Ascolot – School of Interdisciplinary Studies	Lecturer ^⑤
2009-2017	Tel-Aviv University, Israel	The Unit for Science-Oriented Youth	Lecturer
2014-2015	The Avshalom Institute, Israel		Lecturer ^⑥

④ Lectures and workshops in the field of facial expressions and perception

⑤ The role of facial expressions in communication and their influence on our lives

⑥ Lectures on:

1. The origin of human body language
2. The role of facial expressions in communication
3. How facial expressions predict the relationships in couples
4. The genetic basis of facial expressions

C. ACADEMIC AND PROFESSIONAL EXPERIENCE, contd.

Period (dates)	Name of Institution (city, country)	Department	Rank/Function
2014-10/2019	Beit Berl College, Israel	The Faculty of Society and Culture: The Program of Criminology and Law Enforcement	Adjunct Lecturer
2/2012-present	HIT – Holon Institute of Technology, Holon, Israel	Multidisciplinary Studies	
	Rank:		
	2/2012-10/2019	Adjunct Lecturer	
	10/2019-4/2022	Equivalent to Lecturer	
	4/2022-present	Lecturer	

D. PROFESSIONAL AND PUBLIC ACTIVITIES**COLLABORATION:**

Period (dates)	Name of Institution/Conference/ Journal/Exhibitions/Projects (city, country)	Occasion
7/2020-6/2021	School of Multidisciplinary Studies, HIT, Holon, Israel	Collaborator on research project ⑦
2020-present	University of Haifa*; Max Stern Yezreel Valley College †	Collaborator on research projects ⑧
2021-present	Faculty of instructional Technologies, HIT – Holon Institute of Technology, Holon, Israel	Collaborator on research project ⑨
2022-2022	School of Multidisciplinary Studies, HIT – Holon Institute of Technology, Holon, Israel	Collaborator on research project ⑩
6/2022-present	Jane Goodall Institute Israel (JGI-I), Max Stern Yezreel Valley College, Israel	Scientific Advisory Board

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- ⑦ Collaboration with Dr. Nava Shaked, Mrs. Limor Sahar-Inbar, Dr. Hillel Eyal, Mrs. Bracha Einhorn on:
Assessing online teaching in a multidisciplinary setting, based on evaluation and feedback, grounded in a peer review process and implemented at the School of Multidisciplinary Studies, HIT.
- ⑧ Collaboration with Prof. Eviatar Nevo* and Dr. Itai Roffman † on the following research projects:
1. The relationships between psychological flexibility, the perception of human evolution, and the perception of the evolution of the universe creation.
 2. Survival strategy based on non-verbal communication (body language and facial expressions) in chimpanzees living in extreme climate conditions.
- ⑨ Collaboration with Dr. Hayley Weigelt-Marom, Faculty of Instructional Technologies and Dr. Yoel Tawil, School of Multidisciplinary Studies at HIT on:
Examining the effect of exposure to the word “creativity” on patterns of observation and task performance.
- ⑩ Collaboration with Dr. Nava Shaked and Dr. Yoel Tawil, School of Multidisciplinary Studies at HIT on:
Individual teaching versus teaching in tandem – A comparative study of teaching survey

D. PROFESSIONAL AND PUBLIC ACTIVITIES, contd.**INVITED LECTURES:**

Period (dates)	Name of Institution/Conference/ Journal/Exhibitions/Projects (city, country)	Occasion
2008	The 7th Conference of High School Education: Learning Processes and Products of Cooperation, Faculty of Education, Beit Berl College, Israel, 3 June 2008	Guest Lecture: The heredity basis of facial expressions
2014	The Faculty of Society and Culture, The School of Government and Social Policy: The Program of Criminology and Law Enforcement, Beit Berl College, Israel	Invited Lecture: Facial expression as a tool for detection deception (from the course: Optical illusions by Dr. Lea Jaeger)
2014-2015	Zoological Center, Ramat Gan Safari, Tel-Aviv, Israel	Invited lecture: The heredity basis of facial expressions (from the course: Zoology for adults)
2014-2015	School of Law, Sapir College, Israel	Invited lecture: Facial expression as a tool for detecting deception (from the course: Witnesses investigation by Advocate Tomer Orinov)
2016	Rotary Kfar Saba, Israel	Invited lecture: The genetic basis of facial expression
6/2018; 5/2019	Education Program for Judges, Sussman Training Center for Judges on "Advanced Issues in Evidence Law", Kibbutz Maale Hachamisha, Israel, 12/6/2018 and 13/5/2019	Invited lecture: Facial expression as a tool for detecting deception
24/1/2022	Workshop: Education Program for Lawyers on: "Cross-examination", Southern District of the Israel Bar Association for advocates in the criminal and civil fields. Conducted by The Honorable Judge Tomer Orinov, The Beer Sheva Magistrates Court, and Attorney Uri Dayagi, Senior Defense Attorney	Invited lecture: Facial expression as a tool for detecting deception

D. PROFESSIONAL AND PUBLIC ACTIVITIES, contd.**REVIEWER:**

Period (dates)	Name of Institution/Conference/ Journal/Exhibitions/Projects (city, country)	Occasion
2007	Emotion – Journal of the American Psychological Association	Review on paper: Spontaneous facial expressions of emotion of blind individuals by David Matsumoto, Bob Willingham
2007	Psychological Medicine Journal	Review on paper: The similarity of facial expressions in response to emotion-inducing films in reared apart twins by Kenneth S. Kendler, et al

D. PROFESSIONAL AND PUBLIC ACTIVITIES**ACTIVITIES AT HIT:**

Period (dates)	Faculty/Department	Occasion
2017	Faculty of Sciences/Department of Computer Science	Guiding a longitudinal project based on facial expression, aims to reveal new parameters for deceit detection. First stage completed, to be continued
2017	Faculty of Design, Department of Visual Communication Design	Guiding a graduation project for student Arkadi Ardasenov: Video clip for the song "I waited" by Natan Goshen. The guidance related to topics regarding facial expression of emotions.
2018	Faculty of Instructional Technologies	Guiding a graduation project for students Bar Shabtay and Shir Dahan, based on facial expressions: Developing a software for teaching and using FACS (Facial Action Coding System). The project received commendation for excellence in 2018. ❶
9/2019-present	School of Multidisciplinary Studies	Member of the Curriculum Committee; Member of the Teaching Committee ❶

❶ The product (eMotion system) was designed to create activities for learning and practicing facial expression in Dr. Gili Peleg's course "Facial expression – From Darwin until the present".

❶ At the beginning of the Corona period, Dr. Peleg participated in a **Peer observation of teaching process** led by Dr. Nava Shaked, serving as an observer to some of her colleagues who were teaching with Zoom, giving them feedback.

D. PROFESSIONAL AND PUBLIC ACTIVITIES, contd.**ACTIVITIES AT HIT:**

Period (dates)	Faculty/Department	Occasion
9/2019-present	School of Multidisciplinary Studies	Responsible for handling applications for exemption from courses taught in the School of Multidisciplinary Studies
21/1/2020-2021		Member of the Institutional Committee for reducing the teaching load
2/6/2020	The Faculty of Instructional Technologies	Guest lecture: "Facial recognition and facial expressions and application in instructional technologies" ②
3/12/2020	Finance Department	Guest lecture: "The genetic basis for facial expressions"
18-20/11/2020	Future HIT: The Sheba Human Experience Challenge Hackathon, The Sheba Medical Center [online]	Mentor – Intercultural and multidisciplinary team of students from HIT, HLSU-Hochschule Luzern: The Lucerne University of Applied Sciences and Art, and Tel-Hai College † https://futurehit.wixsite.com/sheba
3-4/2021	School of Multidisciplinary Studies, HIT, Holon, Israel	Organizer (with Dr. Shai Gol) †
13/5/2021	School of Multidisciplinary Studies, HIT, Holon, Israel	On-line lecture: "Facial expressions as an indication of malicious intent" †
14/6/2021; 10/3/2022	School of Multidisciplinary Studies, HIT, Holon, Israel	Research forum organizer (with Prof. Liora Bigon) †
17/5/2022	School of Multidisciplinary Studies, HIT, Holon, Israel. Cooperation between the AMIT high school network and the Bioengineering program at HIT	Technological solutions to the challenges of medicine – A workshop for the AMIT network's students (with Dr. Yoel Tawil)*

② Invited by Dr. Hayley Weigelt-Marom, Faculty of Instructional Technologies. This lecture was part of the course "Exploring and learning through eye monitoring" which took place in the faculty's new laboratory.

† The team works together on solving the Human Experience Challenge, developing a new innovative and pertinent solution to improving the experience of the patients hospitalized.

† Organizing the Mofet program in Academy to the first group of 8th-grade students at HIT. Dr. Peleg introduced her course: "Facial expressions – From Darwin until the present" (Mofet program) into three introductory meetings with Mofet program leaders, teachers, parents and pupils from three different schools (Hashmonaim, Bat-Yam; Darca, Bat-Yam; School of the Arts, Ramla). Twenty-two young 8th-grade students joined the program and began the course in May 2021. Nineteen of the twenty students who completed the course, went on to study in the undergraduate program.

† Part of session of lectures, dealing with various topics concerning the missile attack at that time "Israel under fire". The lectures were designed for all students and lecturers at HIT and were given on the day studies were cancelled due to the situation.

† Ongoing forum for lecturers/researchers of the department which will convene three times a year with its goals to inspire research collaborations (with colleagues from this department and other faculties at HIT, and other academic institutions in Israel and abroad) and share recommendations of foundations, grants, fields of interest, and methodologies. Dr. Peleg will continue to organize each forum.

* The workshop aimed to teach basic principles for creating empathy and effective communication in the medical encounter and included a theoretical part (lectures) and a practical part (simulations). As a product, students devised technological solutions to improve communication in face-to-face interactions with medical personnel.

D. PROFESSIONAL AND PUBLIC ACTIVITIES, contd.**ACTIVITIES AT HIT:**

Period (dates)	Faculty/Department	Occasion
7-10/2022	School of Multidisciplinary Studies, HIT, Holon, Israel	Creating asynchronous learning unit*
10/2022	School of Multidisciplinary Studies and Future HIT, Holon, Israel	“Tori”, a project created by a group of students in the course “Technology, communication, and the medical encounter” taught by Dr. Peleg and Dr. Tawil. The project represented HIT in an annual competition for student projects initiated by the Council for Higher Education (Future Fund) and won a financial award that will be used for POC.⚙
12/2022	School of Multidisciplinary Studies and Future HIT, Holon, Israel	“Smart Form”, a project created by a group of students in the course “Technology, communication, and the medical encounter” taught by Dr. Peleg and Dr. Tawil and handles the updating of the medical file using speech recognition started to take part in the accelerator programme (Handzone) In Future HIT.
2022-present	School of Multidisciplinary Studies, HIT, Holon, Israel	Member of the Teaching Quality and Training Committee
28/3/2023	The 6th Future HIT Hackathon in cooperation with Chegg: Dream Big – Hacking Students’ Journey	Hackathon judge in an event in which FUTURE, the entrepreneurship and innovation center of HIT, in collaboration with Chegg⚙ guided HIT students from different faculties working together in ten mixed groups to develop new products that will meet the various needs of the Israeli student, both during the study period and in the transition to the career world. Ten teams presented the concept presentations they created. The teams winning the first three places won prizes.

* A part of the course: “Facial expression – From Darwin until present” was converted into a digital learning format. This asynchronous unit is focused on learning and practicing a universal tool that serves as a basis for technologies that automatically identify emotions: A coding language called FACS (Facial Action Coding System). The project was guided by The Teaching Center.

⚙ The project provides a creative solution to the problem of no-shows in clinic queues. The purpose of this competition is to help outstanding projects progress from the entrepreneurial education stage to the stage of establishing a commercially realized venture.

⚙ Chegg is an American company operating in the global market and focuses on digital learning solutions for students. Chegg is interested in offering its products to the Israeli student population and developing solutions for them that will meet their needs.

E. ACADEMIC AND PROFESSIONAL AWARDS

Year	Name of Institution (city, country)	Occasion
4/1985	The George S. Wise Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, Israel	Distinction for second year B.Sc. degree studies
1991	Medical School, Technion – Israel Institute of Technological, Haifa, Israel	Distinction in research (1st year) – Did not complete studies
13/3/2008	Israel Society for Vision and Eye Research	Award for best lecture in clinical research presented at 27th Annual Meeting of the Israel Society for Vision and Eye Research
28/12/2008	The Zoological Society of Israel	Naomi Bouskila Award for best paper of the year in zoology in the Israel Journal of Ecology and Evolution
17/5/2017	The Annual Day of Research and Creativity, HIT, Holon, Israel	Third prize in multidisciplinary field

E1. RESEARCH GRANTS

Year	Name of Institution (city, country)	Occasion/Amount
2004	Caesarea Edmond Benjamin de Rothschild Foundation (C.R.I.), University of Haifa, Haifa, Israel	Grant – Computational methods during Ph.D. studies: The heredity basis of facial expression (co-principal investigator with Hagit Hel-Or)

F. MEMBERSHIP IN PROFESSIONAL SOCIETIES

Year	Society (country)
	NONE

G. STUDENTS SUPERVISED BY CANDIDATE

HIT – Holon Institute of Technology does not currently have an accreditation for granting research theses (M.Sc.) or Dissertation (Ph.D.) degrees

G1. DOCTORAL STUDENTS

Year	Name of Student	Title of Thesis	Name of Academic Institution
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NONE

G2. M.A./M.Sc. STUDENTS *(please indicate if degree is with "thesis" or "final project")*

Year	Name of Student	Title of Thesis/Final Project	Name of Academic Institution
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NONE

Courses Taught at Academic Institutions

Year	Name of Course	Institution
1986-1990	▪ Invertebrate anatomy	Tel-Aviv University, Israel
2009-2017	▪ The genetic basis of facial expressions and perception ▪ The origin of human body language ▪ Genetics and facial expressions and perception in forensic science ▪ The role of facial expressions and perception in pair bonding	
1990-1991	▪ Medical histology for medical students	Technion, Israel
2008-2010	▪ Facial expressions – From Darwin until the present ^③	Ruppin Academic Center, Israel
2011	▪ In the front of scientific research in the 21st century	The Open University – Ascolot School of Interdisciplinary Studies, Israel
2014-2015	▪ Ancient cultures, lost tribes and endangered species	The Avshalom Institute, Israel
2014-2019	▪ Facial expression as a tool for deceit detection ^④	Beit Berl College, Israel
2012-present	▪ Facial expressions – From Darwin to the present ^⑤	HIT – Holon Institute of Technology, Israel
2018-2022	▪ Facial expressions and biometrics in context of global terrorism threats (with Dr. Shorer)	
2019-present	▪ Technology, communication, and the medical encounter ^⑥	
2022-present	▪ The psychology of learning and memory ^⑥	
2022-present	▪ Identification in the digital and real space	

③ Distinction in teaching course of first semester (2008-2009) and (2009-2010)

④ Distinction in teaching course (2014-2015)

⑤ Also teaching unique classes for program: Excellence in Youth (כיתת מצוינות) and Mofet (כיתת מופת)

⑥ Teaching together with Dr. Yoel Tawil

PUBLICATIONS

C. REFEREED ARTICLES

(published)

1. **G. Peleg**, G. Katzir, O. Peleg, M. Kamara, L. Brodsky, H. Hel-Or, D. Keren, E. Nevo
Hereditary family signature of facial expression
Proc. of the National Academy of Sciences of the United States of America (PNAS)
103(43), 2006 (15921-15926)
WoS: Q1, IF: 12.779 (2021), JCR citations: 36
SCImago: Q1, h-index: 805, Scopus citations: 39
[Google scholar citations: 88]
2. **G. Peleg**, G. Katzir, O. Peleg, M. Kamara, L. Brodsky, H. Hel-Or, D. Keren, E. Nevo
Facial expressions in various emotional states in congenitally blind and sighted subjects
Israel J. of Ecology and Evolution, 55(1), 2009 (11-30)
WoS: Q4, IF: 1.463 (2021), JCR citations: 6
SCImago: Q3, h-index: 34, Scopus citations: 5
[Google scholar citations: 13]
3. I. Roffman, **G. Peleg**, A. Stadler, E. Nevo
Meaningful informational exchange and pantomime in chimpanzees and bonobos:
Implications for proto-language in hominins
Human Evolution, 30(3-4), 2015 (141-174)
SCImago: Q4, h-index: 16, Scopus citation : 1
[Google scholar citation: 1]

E. PAPERS PRESENTED AT SCIENTIFIC MEETINGS PUBLISHED IN PROCEEDINGS

1. **G. Peleg**, G. Katzir, O. Peleg, M. Kamara, L. Brodsky, H. Hel-Or, D. Keren, E. Nevo
Unraveling the genetic basis of facial perception and facial expressions of human emotions
Open House, Institute of Evolution, and University of Haifa
Haifa, Israel, 28 November 2006 **[oral and poster]** (in Hebrew)
2. **G. Peleg**, G. Katzir, O. Peleg, M. Kamara, L. Brodsky, H. Hel-Or, D. Keren, E. Nevo
Hereditary family signature of facial expression
43rd Conf. of The Zoological Society of Israel
Open University, Ra'anana, Israel, 2006 **[oral]** (in Hebrew)
3. **G. Peleg**, G. Katzir, L. Brodsky, O. Peleg, M. Kamara, H. Hel-Or, D. Keren, E. Nevo
Facial expressions in various emotion states, in congenitally blind and sighted subjects
45th Conf. of The Zoological Society of Israel
Ruppin Academic Center, Michmoret Campus, Israel, 2008 **[oral]** (in Hebrew)
4. N. Shaked, L. Sahar-Inbar, H. Eyal, **G. Peleg**, B. Einhorn
Assessing online teaching: A peer-review methodology in a multidisciplinary setting
The 16th Chais Conf. on the Study of Innovation and Learning Technologies:
Learning in the Digital Era
Open University of Israel, Ra'anana, Israel, 16 February 2021 **[oral]** (in Hebrew)

F. PAPERS PRESENTED AT SCIENTIFIC MEETINGS (UNPUBLISHED)

- 2007 Annual Meeting of 27th Israel Society for Vision and Eye Research (ISVER 2007), Neve Ilan, Israel, 15-16 March 2007
Oral presentation: *Hereditary family signature of facial expression*
(**G. Peleg**, G. Katzir, O. Peleg, M. Kamara, L. Brodsky, H. Hel-Or, D. Keren, E. Nevo)
- 2008 The CRI-Project Review Day: From Initial Research to Future Directions. The Caesarea Edmond Benjamin de Rothschild Foundation, Institute for Interdisciplinary Applications of Computer Science, University of Haifa, Haifa, Israel, 26 February 2008
Oral presentation: *Hereditary family signature of facial expression*
(**G. Peleg**, G. Katzir, O. Peleg, M. Kamara, L. Brodsky, H. Hel-Or, D. Keren, E. Nevo)
- 2008 The 7th Conference of High School Education: Learning Processes and Products of Cooperation, Faculty of Education, Beit Berl College, Israel, 3 June 2008
Oral presentation: *The heredity basis of facial expressions*
(**G. Peleg**, G. Katzir, O. Peleg, M. Kamara, L. Brodsky, H. Hel-Or, D. Keren, E. Nevo) **[guest lecture]**
- 2009 Colloquium: Behavioral Sciences Department, Ruppin Academic Center, Israel
Oral presentation: *Hereditary family signature of facial expression*
(**G. Peleg**, G. Katzir, O. Peleg, M. Kamara, L. Brodsky, H. Hel-Or)
- 2016 "Interpretation" – The 3rd Interdisciplinary Conference of the Faculty of Society and Culture, Beit Berl College, Israel, 1 June 2016
Oral presentation: *The genetic basis of facial perception and the brain organs involved in this process*
(**G. Peleg**)
- 2017 The Annual Day of Research and Creativity at HIT, Holon Institute of Technology, Holon, Israel, 17 May 2017
Poster presentation: *Detection of terror intention by automated recognition of facial expression*
(**G. Peleg**, M. Shorer)