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| **Name:** Michal Elboim-Gabyzon ­**­­­­­­­­­­­­­­­­­­­­­­­­­­­** | **Date:** 20/06/2022 |
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**CURRICULUM VITAE**

1. **Higher Education**

##### Undergraduate and Graduate Studies

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| **Degree** | **Name of Institution**  **and Department** | **Period of Study** |
| B.Ed. and Teacher certificate  (With honors) | Jerusalem College; Department of Chemistry and Biology | Oct.1991- Feb. 1994 |
| Bachelor Physical Therapy (BPT) (With honors) | Tel-Aviv University;  Department of Physical Therapy | Oct.1996- Feb. 1999 |
| M.Sc. | Tel-Aviv University;  Department of Physical Therapy | Oct. 2001- Feb. 2005 |
| Ph.D. | University of Haifa; The Graduate Studies Authority | Oct.2007- Feb. 2011 |

##### Post-Doctoral Studies

| **Name of Host** | **Name of Institution and Department/Lab** | **Period of Study** |
| --- | --- | --- |
| Prof. Alon Wolf | Israeli Institute of Technology, Bio-robotics and Biomechanics Lab (BMRL) at the Faculty of Mechanical Engineering | Feb. 2011 -Oct. 2012 |
| Dr. Nicola A. Maffiuletti | Neuromuscular Research Lab, Schulthess Clinic, Zurich, Switzerland | June-Oct 2014, June-Oct 2015 |

1. **Scholarly Positions and Activities outside the University**

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| **Memberships in Academic Professional Associations** | **Years** |
| Membership in Israeli Physical Therapy Society | 1999-present |
| Membership in International Society for Posture & Gait Research | 2015- 2017 |

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| **Editorial Assignments** | **Years** |
| The Editorial Board of the Journal of the Israeli Physical Therapy Society (JIPTS) | 2013- present |
| Editor of the Ethics Section in the Journal of the Israeli Physical Therapy Society (JIPTS) | 2013-2014 |
| Editor of the Outcome Measures Section in the Journal of the Israeli Physical Therapy Society (JIPTS) | 2014-present |

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| **Reviewing for Refereed Journal** | **Years** |
| Journal of the Israeli Physical Therapy Society (JIPTS) | 2009- |
| Journal of Electromyography and Kinesiology (IF=2.368, Q2) | 2011- |
| Rheumatology (IF=7.58, Q1) | 2012- |
| Physical Therapy in Sport (IF=2.365, Q2) | 2012- |
| Clinical Rehabilitation (IF=3.477, Q1) | 2012- |
| Disability and Rehabilitation (IF=3.033, Q1) | 2018- |
| Gait and posture (IF=2.840, Q2) | 2018- |

| **Other Scholarly Positions and Activities** | **Years** |
| --- | --- |
| National Physical Therapy Committee Member: Academia-Practice | 2011 |
| Committee Member of the Physical Therapy Bioethics, International Network of the UNESCO in Bioethics | 2014-2015 |
| Conference Abstract Reviewer - Israel Physical Therapy Society, Tel Aviv | 2014-present |
| Conference Abstract Reviewer - World Confederation for Physical Therapy Congress | 2015 |
| Conference Abstract Reviewer- International Conference on Disability Virtual Reality and Associated Technologies (ICDVRAT) | 2018 |
| Secretary and founding member of Israeli Special Interest Group in Electro-Physical Agents in Physical Therapy | 2019-present |

1. **a. Active Participation in Scholarly Conferences**

**a1.** **International Conferences - Held Abroad**

| **Role/Presenter** | **Subject of Lecture/Discussion** | **Place of Conference** | **Name of Conference** | **Date** |
| --- | --- | --- | --- | --- |
| Poster  Presenter | 1.Quadriceps Femoris Muscle Fatigue in Patients with Knee Osteoarthritis | Amsterdam, Netherlands | World Physical Therapy Congress | June 2011 |
| Platform Presenter | 2.The Effect of electrical stimulation to the quadriceps muscle combined with group exercise on pain and function in knee osteoarthritis |  |  |  |
| Poster  Presenter | 1.Translation and Validation of the Arab Version of the Late-Life Function and Disability Instrument: A Cross Sectional Study | Berlin, Germany | 9th World Congress of the International Society of Physical and Rehabilitation Medicine (ISPRM) | June 2015 |
| Platform Presenter | 2.Comparison between spatial-temporal gait characteristics of elderly individuals walking backward or forward with and without shoes |  |  |  |
| Platform Presenter  **Session Chair** | Attitudes and perceptions towards overweight/obese individuals among physiotherapists | Naples, Italy | Unesco Chair in Bioethics ,11th World Conference Bioethics, Medical Ethics & Health Law | October 2015 |
| Platform Presenter  **Session Chair** | Weight Stigmatization Among Physical Therapy Students | Limassol, Cyprus | Unesco Chair in Bioethics ,12th World Conference Bioethics, Medical Ethics & Health Law | March 2017 |
| **Invited speaker** | Rehabilitation of patients with hip fracture and dementia- clinical implication | Roma, Italy | Dementia Research | September 2017 |
| Platform Presenter | 1.Does sensory transcutaneous electrical stimulation have a beneficial effect on pain, intensity and mobility after hip fracture fixation? Double blinded randomized trial | Geneva, Switzerland | 8th World Physical Therapy Congress | May 2019 |
| Platform Presenter | 2.Weight stigmatization among physical therapy students compared to practicing physical therapist |  |  |  |
| **Keynote speaker** | Expansion of the current conceptual model of frailty | Rome, Italy | Aging Conference | May 2019 |
| Platform Presenter | Hand Function in skills of modern day among Elderly Individuals | Bologna, Italy | 15th AAATE Conference | August 2019 |
| **Invited speaker** | 1.The challenges of the elderly living in the modern world? | Porto, Portugal | Healthy Masters International Conference | December 2019 |
| Debate Panel | 2.Envisioning a future with rejuvenation technologies |  |  |  |
| **Invited speaker** | 1.Fraility of the elderly and COVID | Virtual conference | Healthy Masters International Conference | November 2020 |
| Debate Panel | 2. Human Longevity: what can we do today |  |  |  |
| Poster Presenter | Does an Interphase interval at maximally tolerated current intensity affect the strength of electrically induced contraction of wrist extensors? | Dubai- Virtual conference | 9th World Physical Therapy Congress | April 2021 |
| Debate Panel | Healthy longevity and society | Virtual conference | Healthy Masters International Conference | November 2021 |
| Debate Panel | The hope for a longer healthier life | Virtual conference | Healthy Masters International Conference | May, 2022 |

**a2**. **Local Conferences**

| **Role** | **Subject of Lecture/Discussion** | **Place of Conference** | **Name of Conference** | **Date** |
| --- | --- | --- | --- | --- |
| Platform Presenter | Effect of Neuromuscular Electrical Stimulation Parameters on Maximal Torque Production and Fatigue of Wrist Extensors | Tel Aviv | 5th Conference of the Physical Medicine and Rehabilitation Society | November 2007 |
| Platform Presenter | Teaching Acute Orthopedic at the Internet Era | Haifa | Acute Orthopedics | September 2009 |
| Platform Presenter | Sex Difference in the Characterizes of Patient with Knee Osteoarthritis | Tel Aviv | 6th Conference of the Physical Medicine and Rehabilitation Society | December 2010 |
| Platform Presenter | Quadriceps Femoris Muscle Fatigue in Patients with Knee Osteoarthritis | Tel Aviv | Israeli Physical Therapy Congress | May 2011 |
| Platform Presenter | 1.Does Neuromuscular Electrical Stimulation enhance Effectiveness of an Exercise Program in Subjects with Knee Osteoarthritis? | Tel Aviv | 7th Conference of the Physical Medicine and Rehabilitation Society | December 2011 |
| Platform Presenter | 2.Reliability of Virtual Game as a Diagnostic Tool of Children with  Typical Development |  |  |  |
| Poster Presenter | Virtual Reality as an Assessment Tool for Motor Skill in Elderly | Tel Aviv | 1st The international Conference on Using Advanced Technology for Elderly Care: A new Paradigm | Feb 2013 |
| Platform Presenter | Neuromuscular electrical stimulation therapy to restore quadriceps muscle function in orthopedic surgery patients: a novel structured approach | Tel Aviv | Israeli Physical Therapy Congress | May 2016 |
| Platform Presenter  **Session Chair** | Update on the electrophysical agent's status in the physical world | Tel Aviv | Israeli Physical Therapy Congress | May, 2018 |
| Invited speaker | Treating with electro-physical agents: Should we a structured protocol? | Tel Aviv | National Conference of Leumit Health Service | March, 2022 |
| **Invited speaker** | TENS or Laser | Maalot | The Israel Society of Musculoskeletal Medicine | June, 2020 |

6. **b. Participation in Scholarly Conferences presented by co-author(s) including students (#)**

**b1.** **International Conferences - Held Abroad**

| **Role/** **Presenter** | **Subject of Lecture/Discussion** | **Place of Conference** | **Name of Conference** | **Date** |
| --- | --- | --- | --- | --- |
| Poster / Yizhar, Z. | Variations in Spaito-Temporal and Kinematics parameters during Pregnancy - Based on my thesis supervised by Dr. Z. Yizhar | Amsterdam, Netherlands | European Society of Movement Analysis | June 2006 |
| Poster/ Batya Engel-Yeger | The Reliability of a Virtual Computer Game as a Diagnostic Measure for Typically Developed Children | USA | The American Occupational Therapy Association Conference | April 2015 |
| Platform/ Shmuel Springer | Clinical Decision Making for Using Electro-Physical Agents: What do Physical Therapists Consider? | Berlin, Germany | 9th World Congress of the International Society of Physical and Rehabilitation Medicine (ISPRM) | June 2015 |
| Platform / Corzani, M | Evaluation of hand skills using touchscreen technology in the elderly population | Bologna, Italy | Societa' Italiana di Analisi del Movimento in Clinica (SIAMOC) congress | October 2019 |
| Poster**#** / Klein, R (Master student) | Double (or Triple) discrimination of lesbian, gay, bisexual, transgender, queer, and others (LGBTQ+) community’s older adults | Porto, Portugal | Healthy Masters International Conference | December 2019 |
| Platform/ Fouad Nahhas (Master student) | Pulsed Electro-Magnetic Field Therapy vs. Low Level Laser Therapy for Treating Knee  Osteo-arthritis" | Dubai | 2nd World Congress on Physical Therapy and Rehabilitation Medicine | December, 2021 |

**b2**. **International Conferences Held in Israel**

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| --- | --- | --- | --- | --- |
| **Role/ Presenter** | **Subject of Lecture/Discussion** | **Place of Conference** | **Name of Conference** | **Date** |
| Co-author,  Poster/ Danial-Saad, A | Evaluation of touch technology for the aging population | Tel Aviv | 3th International Conference on Virtual Rehabilitation (ICVR) | July 2019 |

**b3**. **Local Conferences**

| **Role/Presenter** | **Subject of Lecture/Discussion** | **Place of Conference** | **Name of Conference** | **Date** |
| --- | --- | --- | --- | --- |
| Poster/ Teser, S | Age Related Performance Differences of Typically Developing Children while Using Virtual Reality Games | Tel Aviv | 3re Conference of the Israeli Society for Child Development & Rehabilitation | November 2012 |
| Platform/ Mendelevich, H | 1.A Systematic Review of the Literature on the Impact of Resistance Training in Type 2 Diabetics | Tel Aviv | Israel Physical Therapy Congress | May 2017 |
| Platform/ Najjar, S. A. | 2.Effects of transcutaneous electrical stimulation on perioperative pain and function in hip fracture: a randomized, double-blinded, placebo-controlled trial |  |  |  |

6. **c**. **Organization of Conferences or Sessions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Subject of Conference** | **Place of**  **Conference** | **Name of**  **Conference** | **Year** |
| Chair of Organizing committee | One day seminar for clinical instructors | University of Haifa | Acute Orthopedics | September 2009 |
| Member of Organizing Committee | One day seminar | University of Haifa | Hand Rehabilitation | February 2016 |
| Member of Organizing Committee | One day seminar | Ichilov Hospital, Tel-Aviv | Electrotherapy | November 2019 |

1. **Invited Scholarly Lectures (other than in conferences)**

| **Subject of Lecture** | **Place of Lecture** | **Name of Forum** | **Year** |
| --- | --- | --- | --- |
| Low back pain prevention | Nahariya Hospital | Research Symposium | September 2007 |
| Quadriceps activation failure in knee osteoarthritis | Marbach Ker iat Haihm, Sherutei Briut Klalit medical | Research Symposium | September 2009 |
| Knee osteoarthritis and NMES. | Sherutei Briut Klalit | Research Symposium | October 2013 |
| The principles of NMES | Leumit clinics | Research symposium | November 2013 |
| Laser, ultrasound and shockwave for common hand disorders: What is the evidence? | Physical Therapy Department, Faculty of Social Welfare and Health Sciences, University of Haifa, | Seminar | February 2016 |
| Physical activity and aging | Dor Carmel, Nursing Home | Lecture | November 2016 |
| Electrical stimulation and Rehabilitation | Master's degree program, Occupational Therapy, University of Haifa | Lecture | December 2016 |
| TENS and Hip Fracture | Ichilov Hospital, Tel-Aviv | Seminar | November 2019 |
| Digital Literacy and Aging | Geriatric Day Center for Holocaust Survivors in Kyrat Bialik, Haifa | Lecture | December, 2021 |

1. **Colloquium or Seminar Talks**

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| --- | --- | --- | --- |
| **Presentation** | **Place of Lecture** | **Name of Forum** | **Year** |
| Spatio-temporal gait characteristics of elderly individuals during backward and forward walking with shoes and barefoot | Sierre, Switzerland | Health Technology Innovation Center, HES-SO Valais-Wallis, | May 2016 |
| TENS and Hip Fracture | Ichilov Hospital, Tel-Aviv | Special Interest Group in Physical Therapy | November 2019 |
| Introduction to Electro-Physical Agents | Physical Therapy Department, Faculty of Social Welfare and Health Sciences, University of Haifa, | School of Continuing Education in Medicine, Sports Medicine, Technion, Israel Institute of Technology, Haifa, Israel. | March, 2022 |

**Research Grants**

1. **Grants Awarded**

| **Amount** | **Funded by** | **Title** | **Other Researchers** | **Role in Research** | **Years** |
| --- | --- | --- | --- | --- | --- |
| 199,859 ₪ | C- Bituach Leumi (Social Security) | A qualitative analysis of the dependency assessment for community-based long-term care**`** | Dr. M. Agmon - Co-PI  Dr. I. Doron - Co-PI  Prof. Y. Laufer- Co-PI | Co-PI | 2013 |
| 5,000 ₪ | C- Center for Research and Study of Aging  (CRSA), University of Haifa. | Touchscreen assessment tool” (TATOO), an assessment tool of frailty | Dr. Alexandra Danial-Saad- Co-PI | Co-PI | 2018 |
| 5,000 ₪ | C-The Israeli Society of musculoskeletal Medicine | The effect of  38KHZ frequency ultrasound therapy on trigger points- sensitivity, range of motion and motor performance | Prof. Leonid Kalichman - Co-PI | Co-PI | 2020 |
| 5,000 ₪ | C-Center for Research and Study of Aging (CRSA)  at the University of Haifa. | "Dance and move outside the box without falling during coronavirus days" - online group program, which combines intervention methods from the field of movement therapy and physiotherapy, on risk of falls among elderly adult living in the community- Two-Arm RCT | Dr.Einat Shuper Engelhard- Co-PI | Co-PI | 2021 |
| 18,300₪ | C-Minerva Center for Interdisciplinary Study of End of Life | The correlation between the need for palliative physiotherapy treatments in the home framework and the scope of physiotherapy treatment | Prof. Hadass Goldblatt- Co-PI  Anat Woldman- Co-PI | Co-PI | 2021 |
| 5000 Euros | The Minerva Center on Intersectionality in Aging (MCIA) | The relationship between digital literacy, as an indicator of a sustainable society, and physical functioning among elderly women from ethnic minorities | Alexandra Saad- Co-PI | Co- PI | 2022 |
| 25,000₪ | The Emili Sagol Creative Arts Therapies Research Center (CATRC) | Intervention model that combines physiotherapy and movement therapy on the risk of falling among independent elderly | Shuper Engelhard Einat, - CO-PI | Co- PI | 2022 |

1. **Supervision of Graduate Students**

| **Student’s Achievements** | **Year of Completion/in Progress** | **Degree** | **Title of Thesis** | **Name of Other Mentors** | **Name of Student** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | **Master’s Students** |
| ISPGR Congress ,2015  Paper publication | March 2015 | MSc | Foot configuration and Backward  walking in aging | Co-supervision with Prof. Y. Laufer | Shira Rotisheild |
| Israel Physical Therapy Congress, 2017  Paper publication | June 2017 | MSc | The effect of transcutaneous electrical stimulation combined with physical therapy on pain and function in hip fracture patients fixed by gamma nail | Co-supervision with Prof. Y. Laufer | Shahar Najjar -Anedriounus |
| Bioethics, Medical Ethics & Health Law congress, 2015,2017.  WCPT 2019, Geneva,  Paper publication | June 2017 | MSc | Obesity phobia among physical therapist |  | Karin Atar |
| WCPT congress, 2021  Paper publication | June 2020 | MSc | Effects of interphase interval on force production, maximum tolerated current intensity, discomfort, and fatigue, in the stimulation of extensor muscles in the wrist |  | Yara Woad |
| 3 Paper publication | Oct 2020 | MSc | Development and validation of the grounding assessment of emotional and physical aspects of the "grounding" concept | Dr. Einat Shuper  Engelhard, | Michal Pitluk |
|  | Oct 2022 | MSc | The effect of Khz ultrasound on pain pressure pressure threshold, range of movement and motor performance in trigger point | Prof. L. Kalichman | Rana Makhoul |
|  | Oct 2022 | MSc | Hunger" for touch" - The meaning of massage therapy as experienced by older women | Prof. T. Band- Winterstein | Michal Langleben |
| 2nd World Congress on Physical Therapy and Rehabilitation Medicine  Submitted paper | Oct 2022 | MSc | PEMF and Laser modality and knee Osteoarthritis – RCT |  | Foud Nahas |
|  | In progress | MSc | The effect of the COVID-19 epidemic on the number of referrals to child development institutes and the scope of treatments compared to the pre-corona period |  | Hallel Katsir |
| Student’s proposal received grant from the Galilee Medical Center (10,000 shekel) | In progress | MSc | Effects of different methods of block analgesia on function, balance and pain intensity  for patients undergoing total knee arthroplasty in the acute phase |  | Mor Kliger-Tendler |
|  |  |  |  |  | **Ph.D. Students** |
|  | Preproposal stage. Expected to enroll, June 2022 |  | How the integration of physiotherapists in the palliative care system shapes their professional identity? | Prof. Hadass Goldblatt | Anat Waldman |
|  | Expected to enroll, October 2022 |  | Construction and assessment of an  intervention model for preventing falls  in older adults that integrates  physiotherapy exercise and dance  movement therapy | Dr. Einat Shuper  Engelhard  Prof. Hod Orkibi | Michal Pitluk |