

## Curriculum Vitae

### Mohammd Etoom, PT, PhD

Assistant Professor, Physiotherapy and Neurorehabilitation

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## Professional Summary

Assistance Professor in Physiotherapy with strong interest in neurorehabilitation, physiotherapy education, and evidence-based practice. Over 13 years of academic and clinical experience across Jordan and Italy, with academic leadership roles. Published 30+ peer-reviewed articles. Experienced in curriculum development, supervising graduate students, managing academic programs, and contributing to international collaborations in physiotherapy and rehabilitation sciences.

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## Education

**PhD, Advance sciences and technologies in rehabilitation and sport, Tor Vergata University, Rome-Italy. 2013-2017 (Excellent with loude)**

**Thesis:** Evidence-based practice for physiotherapy interventions targeting rehabilitation of the central nervous system disorders

**BSc, Physical Therapy –** The Hashemite University, Zarqa, Jordan (2008–2012)

GPA: 3.1/4 (Very Good)

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## Academic & Professional Experience

**A- Jordan University of Science and technology (10/2023- Now):**

<b><u>Academic Duties</u></b>	<p>A) Teaching and conducting examinations.</p> <p>B) Carrying out innovative research and studies.</p> <p>C) Supervising graduate theses and scientific or social research, guiding students academically and ethically, and monitoring their activities and reports.</p> <p>D) Providing academic advising.</p> <p>E) Participating in university councils and committees, as well as in those in which the university is represented.</p> <p>F) Undertaking any activity that promotes the university and contributes to its advancement.</p> <p>G) Dedicating oneself to academic responsibilities within the university, striving to enhance its scientific mission, and maintaining the level befitting its status in research, teaching, guidance, and administration.</p> <p>H) Serving the community and contributing to its development.</p>
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<b><u>Administrative Role</u></b>	<ul style="list-style-type: none"> <li>- Representative of Faculty of Applied Medical Sciences in the University Council (A.Y 2025/2026).</li> <li>- Representative of Department of Rehabilitation Sciences in the Applied Medical Sciences council (A.Y 2024/2025).</li> <li>- Member of Department and Faculty committees regarding the academic curriculum, national and international accreditations, scientific research and graduate studies</li> </ul>
<b><u>Education and Supervision</u></b>	<p><b><u>Undergraduate courses:</u></b></p> <ul style="list-style-type: none"> <li>- Neurosciences</li> <li>- Musculoskeletal Anatomy</li> <li>- Disability and Community</li> <li>- Graduation Project</li> <li>- Musculoskeletal Assessment</li> <li>- Graduation Project</li> <li>- Clinical Practice in Neurology (1)</li> </ul> <p><b><u>Graduate Courses:</u></b></p> <ul style="list-style-type: none"> <li>-Advanced Neurosciences</li> <li>-Independent Study in Physical Therapy</li> </ul> <p><b><u>Master thesis student supervision:</u></b></p> <ol style="list-style-type: none"> <li>1- Attitude and beliefs toward non-specific neck pain among physiotherapists in Jordan. [Student name: Elham Bani Bakar].</li> <li>2- Assessment of Pain in Parkinson's Disease: linking to the international classification of function. [Student name: Toqa Elmastrehy].</li> <li>3- Parents and Nursery Workers Knowledge about Early Child Developmental Milestones in Jordan; A Cross-sectional study. [Student name: Lojain abuqaoud].</li> <li>4- Observational gait analysis tools among participants with neurological disorders. A systematic review and meta-analysis. [Student name: Saja Almomani].</li> </ol>

***B- Aqaba University of Technology (10/2020- 10/2023):***

<b><u>Administrative role</u></b>	<ul style="list-style-type: none"> <li>- Acting Dean of the Faculty of Allied Medical Sciences (7/2023-10/2023)</li> <li>- Head of Physical Therapy Department (10/2022-10/2023)</li> <li>- Founding Head of Allied Medical Sciences Department (10/2020-10/2022)</li> </ul>
<b><u>Education</u></b>	<ul style="list-style-type: none"> <li>- Introduction to Physical Therapy</li> <li>- Biostatistics</li> <li>- Biomechanics and Kinesiology (Theory, and experimental)</li> <li>- NeuroAnatomy</li> <li>- Neuromuscular development</li> <li>- Physical Therapy for Neurological disorders (Theory, and experimental)</li> <li>- Physical Therapy in Geriatric</li> </ul>

***C- Al-Isra University, Amman-Jordan, Physical Therapy Department (10/2017-10/2020):***

<b><u>Administrative role</u></b>	<ul style="list-style-type: none"> <li>- Representative of Department of Physical Therapy in the Faculty of Applied Medical Sciences council (A.Y 2017/2018-2020/2021).</li> <li>- Member of Department committees regarding the academic curriculum, and national and international accreditations</li> </ul>
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<b><u>Education</u></b>	<ul style="list-style-type: none"> <li>- Neurosciences (Theory, and experimental)</li> <li>- Physical Therapy for Neurological disorders (Theory, and experimental)</li> <li>- Introduction to Physical Therapy                      - Neuromuscular development</li> <li>- Electro therapy (Theory, and experimental)   - Research Methodology</li> <li>- Biomechanics and Kinesiology (Theory, and experimental)</li> <li>- NeuroAnatomy                      - Musculoskeletal Anatomy</li> <li>- Graduation Project</li> </ul>
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***D- Physiotherapist and Researcher, IRCCS Neuromed- Mediterranean Neurological Institute, Pozzilli- Italy (4/2016-11/2016):***

- Physiotherapy for patients with Parkinson's Disease.
- Pisa syndrome in Parkinson's disease: assessment and Rehabilitation

***E- Physiotherapist and Researcher, Policlinco di Università Tor Vergat, Rome- Italy (4/2014-4/2016):***

- Physiotherapy for Patients with Multiple Sclerosis.
- Fatigue and Spasticity Rehabilitation

## **External Academic Service**

- Member in a set of committees in the Jordanian Commission of Accreditation and Quality Assurance (Accreditation for Physical Therapy Programs in Jordanian Universities)
- External examiner for Master's theses, University of Jordan
- External examiner for Master's theses, Al-Ahlya Palestine University

## **Research Profile:**

- Research interest: Neurorehabilitation, Meta-analysis, Evidence based practice
- SCOPUS H-index:10
- Full peer-review publications:

<u>Title</u>	<u>Year</u>	<u>Journal</u>	<u>Volume, (Issue) Pages</u>	<u>Authorship</u>
Effects of Intradialytic Exercises on Erectile Dysfunction in Men Undergoing Hemodialysis. A Pilot Randomized Controlled Trial	2025	Physiotherapy Research International	-	Co-author (2), Corresponding
Post stroke fatigue: Analysis of subtypes and associated factors	2025	Journal of Clinical Neurosciences	139(9) 111418	First Author
The prevalence of metabolic syndrome in chronic obstructive pulmonary disease: A systematic review and meta-analysis	2025	Chronic Respiratory Disease		Co-author (3)
Non-Invasive Brain Stimulation Effectiveness on Gait, Balance, and Motor Functions in Children with Cerebral Palsy: A Systematic Review and Meta-Analysis	2025	Neurorehabilitation	57(2), 147-168	Last Author

Parental quality of life and its predictors in Jordanian families with children with cerebral palsy	2025	BMJ pediatric open	9(1) e003462	Co-author (5)
Effects of freezing of gait on vertical ground reaction force in Parkinson's disease	2024	Human Movement Science	98 (12) 103301	First Author
Attitudes and Beliefs Toward Non-Specific Neck Pain Among Physiotherapists in Jordan: A Cross-Sectional Study	2024	Musculoskeletal Care	22 (3) e1940	First Author
Global, regional, and national burden of stroke and its risk factors, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021	2024	The Lancet Neurology	23 (10) 973-1003	Co-author (396)
Exploring the Links between Physical Activity, Emotional Regulation, and Mental Well-Being in Jordanian University Students	2024	Journal of Clinical medicine	13 (6) 1533	Co-author (4)
The Efficacy of Muscle Energy and Mulligan Mobilization Techniques for the Upper Extremities and Posture after Breast Cancer Surgery with Axillary Dissection: A Randomized Controlled Trial	2024	Journal of Clinical medicine	13 (4) 980	Co-author (2), Corresponding
Prevalence of attention-deficit hyperactivity disorder in children, adolescents and adults in the Middle East and North Africa region: a systematic review and meta-analysis	2024	BMJ open	14 (1) e078849	Co-author (2)
Vagus Nerve Stimulation for the treatment of Epilepsy; Things to Note on the protocols, the effects and the mechanisms of Action	2024	International Journal of Neuroscience	134 (6)	Co-author (2)
Relationship between Sleep Quality and Shoulder Disorders in People with Stroke	2023	Medicina	59(11) 2010	Co-author (2)
The effectiveness of home-based therapeutic exercises on adults with fibromyalgia: a systematic review and meta-analysis	2023	International Journal of Rehabilitation Research	46(4) 359–368	Last Author
Exploring Communication Practices in Italian Physiotherapy: Knowledge and Use of Effective Communication Strategies—A National Descriptive Study	2023	Healthcare	11 (16) 2247	Co-author (2)
Axial postural abnormalities and pain in Parkinson's disease	2023	Journal of Neural Transmission	130 (1) 77–85	Co-author (4)
Ataxia Rating Scales: Content Analysis by Linking to the International Classification of Functioning, Disability and Health	2022	Healthcare	10 (12) 2459	First Author
Home-Based Exercise to Improve Motor Functions, Cognitive Functions, and Quality of Life in People with Huntington's Disease: A Systematic Review and Meta-Analysis	2022	Int. J. Environ. Res. Public Health	19 (22) 14915	Last Author
Single textured insole for the less affected leg in freezing of gait: A Hypothesis	2022	Frontiers in Neurology	13 892492	First Author
Effects of Transcranial Direct Current Stimulation on Sleep in Athletes: A Protocol of a Randomized Controlled Trial	2022	Journal of Clinical Medicine	11 (19) 5883	First Author
Rehabilitation interventions for improving balance in Parkinson's disease: a narrative review	2022	American Journal of Physical Medicine and Rehabilitation	102(3) 270-274	Last Author
Evidence- based physiotherapy practice in Jordan: Evaluation and identification of implementation factors	2022	Physiotherapy theory and Practice	39 (12) 2723- 2739	Co-author (2), Corresponding
Distance learning in physiotherapy education during the COVID-19 pandemic: students' satisfaction, perceived quality, and potential predictors of satisfaction	2022	Physiotherapy theory and Practice	39 (7) 1513- 1518	First Author
Determination of Hand Grip Strength and its Correlates during Pregnancy: A Cross-sectional Study	2021	BMC pregnancy childbirth	21(1), 540	Co-author (11)
Osteoporotic fracture and conservative management in Parkinson's disease and Pisa syndrome: case report.	2021	Journal of Bodywork and Movement Therapies	25 170-173	Co-author (2)
Therapeutic interventions for Pisa Syndrome in idiopathic Parkinson's disease. A Scoping Systematic Review	2020	Clinical Neurology and Neurosurgery	198, (18) 106242	First Author
Is transcranial direct current stimulation (tDCS) effective for chronic low back pain? A systematic review and meta-analysis	2020	Journal of neural transmission	127, (9) 1257-70	Co-author (3)
Effectiveness of robot-assisted gait training on freezing of gait in people with Parkinson disease: Evidence from a literature review	2019	Journal of Exercise Rehabilitation	15,(2) 187-192	Co-author (2)

Effectiveness of robot-assisted gait training on motor impairments in people with Parkinson's disease: A systematic review and meta-analysis	2018	International Journal of Rehabilitation Research	41, (4) <u>287-296</u>	Co-author (2)
Effectiveness of Physiotherapy Interventions on Spasticity in People with Multiple Sclerosis: A Systematic Review and Meta-Analysis	2018	American Journal of Physical Medicine and Rehabilitation	97, (11) <u>793-807</u>	First Author
Neuromuscular Electrical Stimulation for Lower Limb in Chronic Stroke	2018	Archives of Physical Medicine and Rehabilitation	99,(8) <u>1689-90</u>	First Author
Comments on: Influence of transcutaneous electrical nerve stimulation on spasticity, balance, and walking speed in stroke patients: A systematic review and meta-analysis	2018	Journal of Rehabilitation Medicine	50, (1) <u>94</u>	First Author
Transcutaneous Electrical Nerve Stimulation for Spasticity	2017	American Journal of Physical Medicine and Rehabilitation	96, (11) <u>e198</u>	First Author
Effects of postural exercises in patients with Parkinson's disease and Pisa syndrome: A pilot study	2017	NeuroRehabilitation	41, (2) <u>423-428</u>	Co-author (3), Corresponding
Constraint-induced movement therapy as a rehabilitation intervention for upper extremity in stroke patients: Systematic review and meta-analysis	2016	International Journal of Rehabilitation Research	39, (3) <u>197-210</u>	First Author

## Conferences:

1. 16th Mediterranean Congress of Physical and Rehabilitation Medicine. 18-21 September 2025. Sibenik, Croatia.
2. 5<sup>th</sup> Congress on Neurorehabilitation and Neural Repair. 14-15 May 2025. Maastricht, Netherlands
3. XXIX World congress on Parkinson's disease and related disorders. 19-22 May 2024. Lisbon, Portugal
4. 15<sup>o</sup> Mediterranean Congress of Physical and Rehabilitation Medicine. 6-8 July 2023. Rome- Italy
5. 12th International Society of Physical and Rehabilitation Medicine (ISPRM) World Congress. Paris, France | July 8-12, 2018.
6. New Horizons in Rehabilitation Medicine. Amman-Jordan, 11-13/10/2017
7. The link between hypo- and hyperkinetic movement disorder?'. Rome-Italy, 12, 13/5/2017.

## PROFESSIONAL AND SCIENTIFIC MEMBERSHIP:

Jordanian Society of Physical Therapy (JPTS), International society of Physical Medicine and Rehabilitation (ISPRM), World federation of Neurorehabilitation (WFNR), International Association of Parkinsonism and Related disorders (IAPRD), Mediterranean Forum of Physical and Rehabilitation Medicine (MFPRM)

## Continuous education and workshop

- 8/2025 Grant Proposal Writing. German Academic Exchange Service (DAAD). Amman-Jordan. 10 Hours
- 12/2024 Emotional Intelligence in Education: Developing emotional intelligence skills for effective communication with students. Jordan University of Science and Technology. Irbid-Jordan. 12 Hours
- 11/2024 AI Masterclass for Healthcare Professionals Programme, Physiopedia, Online, 6.5 Hours
- 10/2024 Qualitative Research Methods. Jordan University of Science and Technology. Irbid-Jordan. 24 Hours
- 2/2024. Statistical Analyzing and Interpretation of Results Using JMP, Jordan University of Science and Technology. Irbid-Jordan. 12 Hours
- 1/2024. The Ethics of Teaching and Classroom Management. Jordan University of Science and Technology. Irbid-Jordan. 12 Hours

- 7/2022. Pre-Gait and Gait Interventions to Improve Function in Children With Cerebral Palsy. PhysicalTherapy.com. Online. 1.5 Hours.
- 5/2022. Early detection of atypical motor development in the first 6 months. Aqaba University of Technology, Aqaba-Jordan, 20 Hours **(Trainer)**.
- 9/2021. Training of trainers in Interaction Learning Methods in Health Education. Royal Health Awareness Society. Aqaba-Jordan, 24 Hours.
- 6/2021. The Gross Motor Function Measure (GMFM). Jordanian Physiotherapy Society. Amman-Jordan, 8 Hours.
- 6/2021. National framework for qualifications. Accreditation and quality assurance commission for higher education institutions. Amman-Jordan, 32 Hours
- 2/2021. Leadership in Higher Education. Dale Carnegie Jordan. Aqaba University of Technology. Aqaba-Jordan, 16 Hours
- 2/2021. TEDEI - Training in Early Detection for Early Intervention. Newcastle University. Online, 10 Hours
- 11/ 2020. Meta-analysis. Aqaba University of Technology, Aqaba-Jordan, 4 Hours **(Trainer)**.
- 3/2020 Introduction to COVID-19 AND the role of physiotherapy, Physiopedia, Online, 12 Hours
- 1/2020 Dynamic Suit Orthosis. Jordan Society of Physical Therapy, Amman-Jordan, 36 hours
- 1/2020. Meta-analysis. Isra University, Amman-Jordan, 4 Hours **(Trainer)**.
- 9/2019 Toward learning based on Quality, Isra University, Amman-Jordan, 27 hours
- 6/2019 Role of PT in victims of torture, Jordan Society of Physical Therapy, Amman-Jordan, 36 hours
- 6/2019 Traumatic brain Injury, Physiopedia, Online courses, 25 hours
- 9/2018 Physiotherapy Management of Spinal Cord Injury International Spinal Cord Society, Online course, 25 Hours
- 11/2016 The posture: Functional evaluation and Therapy Elform e-learning formation and applications, Rome- Italy, 12 hours
- 3/2016 Let's write a manuscript- Extra Terme di pompeo- Italy, 8 Hours
- 3/2016 Rehabilitation and Sports: " up to date" Terme di pompeo- Italy, 8 Hours
- 11/2015 TECHAR Therapy Elform e-learning formation and applications, Rome- Italy, 12 hours
- 7/2014 Exoskeleton in Medical Rehabilitation University of Rome Tor Vergata, Rome-Italy, 6 Hours
- 5/2014 Vascular Pathologies and Rehabilitation Medicine. AIM Group international, Rome- Italy, 10 Hours
- 1/2012 Postgraduate program (Mechanical diagnosis and therapy) Part A&B The McKENZIE INSTITUTE INTERNATIONAL, Amman-Jordan, 56 Hours

## **Editorial / Referee Experience**

1- Guest Associate editor: Frontiers in Rehabilitation sciences

2- Review editor: Frontiers in Neuroergonomics, Journal of Clinical Medicine

3- Reviewer in: BMC Neurology, Clinical Rehabilitation, Journal of body work and movement therapies, European journal of Physiotherapy, International Journal of Therapy and Rehabilitation, Asian Spine Journal, Archives of physical medicine and rehabilitation, BMC musculoskeletal disorders, Brain sciences, Children, Complementary Medicine Research, Disability and rehabilitation, Expert review of neurotherapeutics, Frontiers in rehabilitation science, Frontiers in Neurology, Journal of clinical medicine, Journal of personalized medicine, Medicina, Neurological sciences.

## ***References:***

**1- Prof. Calogero Foti.** Chair of Physical Medicine and Rehabilitation, Tor Vergata University, Rome-Italy. E-mail: [foti@med.uniroma2.it](mailto:foti@med.uniroma2.it)

**2- Prof. Ziad Hawamdeh.** Vice President of University of Jordan, Amman- Jordan.E-mail: [z.hawamdeh@ju.edu.jo](mailto:z.hawamdeh@ju.edu.jo)

**3- Prof. Salameh Adajah.** Dean of the faculty of Allied medical Sciences, Isra University, Amman- Jordan. E-mail: [salameh.aldajah@aut.edu.jo](mailto:salameh.aldajah@aut.edu.jo)