

Noor Ismael, PhD, MSc, OTR/L

Associate Professor of Occupational Therapy
Department of Rehabilitation Sciences
Faculty of Applied Medical Sciences
Jordan University of Sciences and Technology
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Personal Information

Date of Birth: March 17th, 1984
Place of Birth: Doha, Qatar
Social Status: Married with three children

Education

August 2017	Doctor of Philosophy in Therapeutic Sciences University of Kansas Medical Center, Kansas City, Kansas, USA Graduated with GPA of 3.9 Dissertation "Effects of sensory processing patterns on social skills and problem behaviors"
May 2010	Master of Science in Occupational Therapy University of Kansas Medical Center, Kansas City, Kansas, USA Graduated with GPA of 4.0 Master's Thesis "The impact of preschoolers' gender and sensory preferences on physical activity levels during play"
June 2005	Bachelor of Science in Occupational Therapy Jordan University of Science and Technology, Irbid, Jordan Graduated with GPA of 3.13 Ranked 1st among class of 2005

Positions/ Employment

October 2025- current	Associate Professor of Occupational Therapy Department of Rehabilitation Sciences Faculty of Applied Medical Sciences Jordan University of Science and Technology Irbid, Jordan
March 2018- September 2025	Assistant Professor of Occupational Therapy Department of Rehabilitation Sciences Faculty of Applied Medical Sciences

	Jordan University of Science and Technology Irbid, Jordan
January 2013- July 2017	Graduate Teaching Assistant Occupational Therapy Education University of Kansas Medical Center Kansas City, Kansas
August 2010- June 2012	Full-Time Lecturer Department of Rehabilitation Sciences Jordan University of Science and Technology Irbid, Jordan
August 2008-August 2010	Graduate Teaching Assistant Occupational Therapy Education University of Kansas Medical Center Kansas City, Kansas
June 2005-December 2007	Teaching Assistant and Occupational Therapy Lab Technician Department of Rehabilitation Sciences Jordan University of Science and Technology Irbid, Jordan

Academic Duties

- Teaching and conducting examinations.
- Carrying out innovative research and studies.
- Supervising graduate theses and scientific or social research, guiding students academically and ethically, and monitoring their activities and reports.
- Providing academic advising.
- Participating in university councils and committees, as well as in those in which the university is represented.
- Undertaking any activity that promotes the university and contributes to its advancement.
- 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.
- Serving the community and contributing to its development.

Honors/ Awards

2017	Katherine Reed Scholarship: For outstanding student work inside and outside the classroom Occupational Therapy Education University of Kansas Medical Center Kansas City, Kansas
2015	Ellen Roose Scholarship: For distinguished graduate student

	Occupational Therapy Education University of Kansas Medical Center Kansas City, Kansas
2015	Katherine Reed Scholarship: For outstanding student work inside and outside the classroom Occupational Therapy Education University of Kansas Medical Center Kansas City, Kansas
2014	Graduate Student Award Graduate Studies University of Kansas Medical Center Kansas City, Kansas
2012	Dean's Award: Successfully leading and implementing "The First Occupational Therapy Open Day" Faculty of Applied Medical Sciences Jordan University of Science and Technology Irbid, Jordan
2006	Vice President Award: Successfully leading and implementing "The First Occupational Therapy Student Seminar" Jordan University of Science and Technology Irbid, Jordan
2005	Deanship List of Honor for Academic Achievement Also awarded in 2004, 2003, 2002 Faculty of Applied Medical Sciences Jordan University of Science and Technology Irbid, Jordan

Teaching Experience

Occupational Therapy Bachelor's Program	OT 220 Independent Living Strategies
	OT 222 Independent Living Strategies Lab
	OT 321 Occupations: Theory and Analysis
	OT 323 Occupations: Theory and Analysis Lab
	OT 345 Pediatric Rehabilitation 1
	OT 347 Pediatric Rehabilitation 1 Lab
	OT 346 Pediatric Rehabilitation 2
	OT 348 Pediatric Rehabilitation 2 Lab
	OT 476 Clinical Practice in Pediatrics
	LS 493 Research Seminar

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Clinical Rehabilitation Sciences
Master's Program

CRS 712 Applied Models in Rehabilitation
CRS 722 Applied Models in Motor Control and Learning

Research Grants

Jordan University of Science and Technology, Grant ID# 20220610, Functional Performance Needs of Adults with Intellectual and Developmental Disabilities in Jordanian Residential Centers, 630 USD.

Jordan University of Science and Technology, Grant ID# 20200237, Exploring Family-Centered Practice for Children with Autism Spectrum Disorders in Jordan, 7,750 USD.

Jordan University of Science and Technology, Grant ID#20200074, Occupational Performance in Individuals with Mental Disorders, 6,300 USD.

Jordan University of Science and Technology, Grant ID# 20190439, Sensory Processing and Motor Skills in Children with Developmental Conditions and Children with Typical Children, 12,000 USD.

Jordan University of Science and Technology, Grant ID# 20180524, Differences in Participation Patterns between Children with Autism Spectrum Disorders and Children with Typical Development, 4,000 USD.

Jordan University of Science and Technology, Grant ID# 20180478, Occupational Performance and Satisfaction in Daily Life Activities as Perceived by Individuals with Vestibular Disorders, 1,480 USD.

Scholarships

2013- 2017	Fully funded scholarship to study Doctor of Philosophy in Therapeutic Sciences Occupational Therapy Education University of Kansas Medical Center Kansas City, Kansas
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2008- 2010	Fully funded scholarship to study Master of Science in Occupational Therapy Occupational Therapy Education University of Kansas Medical Center Kansas City, Kansas
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Thesis Committees

Primary Thesis Mentor

Safa'a Kamal Nazzal, 2019, "Occupational Performance and Satisfaction in Daily Life Activities as Perceived by Individuals with Vestibular Disorders"

Sana'a Mohammad Al Shloul, 2019, "The Differences in Participation Patterns between Children with Autism Spectrum Disorders and Children with Typical Development"

Bara'a Ali Bisharat, 2020, "The Differences in Sensory and Motor Characteristics between Children with Autism Spectrum Disorders and Children with Typical Development: A Systematic Review"

Mirvat Jasser Mustafa, 2020, "Exploring Stress and Coping among Caregivers of Children with Autism Spectrum Disorder in Jordan"

Huda Zuhdi Al Razem, 2020, "Cross-Cultural Adaptation of the COPE Inventory into Arabic: Exploring Coping Strategies among Jordanian Rehabilitation Students"

Hanan Issa Madi, 2021, "Occupational Performance and Satisfaction of Individuals with Mental Disorders in Jordan"

Malak Tayseer Khashroom, 2023, "Mobility Evaluation in Children with Cerebral Palsy: A Systematic Review"

Khetam Abd Al Kareem Hamadat, 2023, "Occupational Therapy Interventions for Adults with Hand Injuries: A Systematic Review"

Areej Abd Al Kareem Al Titi, 2023, "Functional Performance Needs of Adults with Intellectual and Developmental Disabilities in Jordanian Residential Centers"

Raghad Waleed Abu Ladou, 2024, "The impact of sensory processing patterns and learning styles on psychological traits and coping strategies in Jordanian universities' students"

Dalal Yousef Khader, 2025, "Knowledge, Perceptions and Attitudes about Autism Spectrum Disorders among Jordanian Caregivers of Children with and without ASD: A Mixed Method Study"

Thesis Co-Mentor

Ala' Tawfeeq Baz, 2021, "Participation among Children with Disabilities in West Bank and contributing factors"

Tala Atiyah Al Hiary, 2023, "The Effect of Splinting and Orthosis on Functional Performance for Individuals with Multiple Sclerosis: A Systematic Review"

Thesis Member

Ismael Mahmoud Al Haj Ismael, 2019, "Examining the Relationship between Motor Learning, Cognition and Sleep Quality, and Related Biomarkers in Individuals with Parkinson's Disease"

Rawan Sulaiman Al Momani, 2019, "Occupational Performance in Individuals with Stroke: A Cross-sectional Study of Therapeutic Interventions and Associated Factors"

Wala'a Khaled Abd Al Aziz, 2020, "Gait and Balance Difficulties under Dual-Task Conditions in Multiple Sclerosis: Which Personal and Clinical Characteristics are Important?"

Lamees Ali Garram, 2020, "The Effect of Marital Support on Pain Perception, Depression Level and Function of Patients with Chronic Low Back Pain"

Malak Mohammad Titi, 2021, "Therapeutic Interventions and Occupational Performance of Children with Autism Spectrum Disorder in Jordan"

Zainab Mahmoud Al Hindi, 2021, "Effect of Low Back Pain Knowledge-Related Education on Low Back Pain Treatment Outcomes: A Randomized Controlled Trial"

Farah Adel Salamah, 2021, "Physical Activity in People with Multiple Sclerosis in Jordan: Barriers and Facilitators"

Ra'fat Al Masri, 2021, "Cross Cultural Adaptation and Psychometric Evaluation of the Physical Activity and Disability Survey - Revised in People with Multiple Sclerosis"

Hussam Omar Taha, 2021, "Upper Extremity Outcome Measures Used by Occupational Therapists in the Middle East: Challenges and Associated Factors"

Asma'a Hussein Qabalani, 2022, "Rehabilitation Needs for Patients with Hemophilia in Jordan: A Biopsychosocial Analysis"

Sara Mohammad Obaidat, 2022, "Mental and Physical quality of Life among Patients with Scoliosis in Jordan: A Cross Sectional Study"

Roa'a Khaled Alkhatib, 2023, "The Predictors of Poor Sleep Quality among Syrian Refugees in Jordan"

Roa'a Ali Elghandour, 2023, "Return to Work after Joint Arthroplasty Surgery and its Associated Factors: A Cross-sectional Study"

Shahed Abd Al Rahman Batarneh, 2024, "The Efficacy of Therapeutic Exercises Delivered via an Arabic Mobile Application for Urinary Incontinence Among Women: A Randomized Controlled Trial"

Suzan Mounir Al Asmar, 2025, "The effectiveness of nutritional therapy in the management of the clinical features of children with Autism Spectrum Disorders: A systematic review and meta-analysis"

Publications

Published Full Research Papers

Nazzal, M., Oteir, A., Alrawashdeh, A., Alwidyan, M., Obiedat, Q., Al Mhdawi, K., Ismael, N., & Williams, B. (2024). Prevalence of work-related musculoskeletal disorders and associated factors affecting emergency medical services professionals in Jordan: A cross-sectional study. *BMJ Open*. (0), e078601. Published Online. doi:10.1136/bmjopen-2023-078601

Ismael, N., Jaber, A., Malkawi, S., Al Awady, S., & Ismael, T. (2024). Exploring coping strategies among caregivers of children who have survived pediatric cancer in Jordan. *BMJ Pediatrics Open*. 8(e002453). doi:10.1136/bmjpo-2023-002453. Published Online <https://bmjpaedsopen.bmj.com/content/bmjpo/8/1/e002453.full.pdf>

Ismael, N., Almhdawi, K., Jaber, A. A., Kana'an, S., & Al Shloul, S. A. (2023). Participation patterns in elementary school-aged children with autism spectrum disorders and their typically developing peers. *Journal of Children's Services*. Published Online <https://www.emerald.com/insight/content/doi/10.1108/JCS-10-2021-0049/full/html>

Ismael, N. T., Nazzal, S. A. K., Jaber, A. A. F., & Yabroudi, M. A. (2023). Exploring perceived occupational performance among individuals with Vertigo in Jordan: A cross-sectional study. *British Journal of Occupational Therapy*, Published Online <https://journals.sagepub.com/doi/10.1177/03080226231175571>

Kanaan, S. F., Alhendi, Z. M., Almhdawi, K. A., Aldahamsheh, Z., Ismael, N., & Khalil, H. (2023). Evaluating the effectiveness of a comprehensive education on low back pain treatment outcomes: A controlled clinical study. *Clinical Rehabilitation*, 37(1), 98-108. <https://doi.org/10.1177/02692155221122661>

Madi, H. I., Ismael, N. T., Hamaideh, S. H., & Jaber, A. A. F. (2022). Occupational performance and satisfaction of individuals with mental disorders in Jordan: A cross-sectional study. *British Journal of Occupational Therapy*, 85(11), 869-879. <https://doi.org/10.1177/03080226221089853>

Almhdawi, K. A., Alrabbaie, H., Kanaan, S. F., Oteir, A. O., Jaber, A. F., Ismael, N. T., & Obaidat, D. S. (2020). Predictors and prevalence of lower quadrant work-related musculoskeletal disorders among hospital-based nurses: A cross-sectional study. *Journal of Back and Musculoskeletal Rehabilitation*, 33(6), 885-896. DOI: 10.3233/BMR-191815

Ismael, N., Lawson, L. M., Moqbel, M., & Little, L. (2018). Coping strategies among caregivers of children with autism spectrum disorders: A cluster analysis. *International Journal of Medical and Health Sciences*, 7(3). https://scholarworks.utrgv.edu/is_fac/31/

Ismael, N., Lawson, L. M., & Hartwell, J. (2018). Relationship between sensory processing and participation in daily occupations for children with autism spectrum disorder: A systematic review of studies that used Dunn's sensory processing framework. *The American Journal of Occupational Therapy*, 72(3), 7203205030p1-7203205030p9. <https://doi.org/10.5014/ajot.2018.024075>

Lawson, L. M., Cline, J., French, A., & Ismael, N. (2017). Patient perceptions of a 1-h art-making experience during blood and marrow transplant treatment. *European journal of cancer care*, 26(5). DOI: 10.1111/ecc.12482

Ismael, N. T., Lawson, L. A. M., & Cox, J. A. (2015). The relationship between children's sensory processing patterns and their leisure preferences and participation patterns. *Canadian Journal of Occupational Therapy*, 82(5), 316-324.
<https://doi.org/10.1177/0008417415577421>

Ismael, N. T., & Lawson, L. M. (2012). The impact of preschoolers' gender and sensory preferences on physical activity levels during play. *British Journal of Occupational Therapy*, 75(9), 429-435. <https://doi.org/10.4276/030802212X13470263980874>

Published Abstracts

Ismael, T., Al Awady, S., Malkawi, S., & Ismael, N. (2022, November). EXPLORING COPING STRATEGIES AMONG CAREGIVERS OF CHILDREN WHO HAVE SURVIVED CANCER IN JORDAN. In *PEDIATRIC BLOOD & CANCER* (Vol. 69, pp. S522-S523). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.

Ismael, N., Jaber, A. A., & Mhdawi, K. A. (2020). The differences in participation patterns between children with autism spectrum disorder (ASD) and children with typical development. *The American Journal of Occupational Therapy*, 74(4_Supplement_1), 7411500020p1-7411500020p1.

Ismael, N., Lawson, L. M., Dean, E., & Dunn, W. (2018). Effects of sensory processing patterns on social skills and problem behaviors. *The American Journal of Occupational Therapy*, 72(4_Supplement_1), 7211500060p1-7211500060p1.

Ismael, N., Lawson, L. M., & Hartwell, J. (2018). Relationship between sensory processing and participation in daily occupations for children with autism spectrum disorder: A systematic review of studies that used Dunn's sensory processing framework. *The American Journal of Occupational Therapy*, 72(3), 7203205030p1-7203205030p9.

Ismael, N., Lawson, L. M., & Little, L. (2017). The Relationship Between Children with ASDs' Sensory Processing Patterns and Their Activity Participation Patterns. *The American Journal of Occupational Therapy*, 71(4_Supplement_1), 7111510194p1-7111510194p1.

Review of Research Articles in Journals

American Journal of Occupational Therapy
British Journal of Occupational Therapy
Canadian Journal of Occupational Therapy
Scandinavian Journal of Occupational Therapy

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Updated October 2025

Research in Autism Spectrum Disorders
Research in Developmental Disabilities
International Journal of Developmental Disabilities
Physical Activity and Health Journal
International Journal of Developmental Disabilities
International Journal of Rehabilitation Research
Neuropsychiatric Disease and Treatment

Review of Research Proposals in International Conferences

American Occupational Therapy Association AOTA INSPIRE 2022 Proposal Reviewer
American Occupational Therapy Association AOTA Annual Conference & Expo 2020 Proposal Reviewer

Professional Societies Memberships

Jordanian Society of Occupational Therapy 2017, 2018, 2019, 2022. 2023, 2024, 2025
World Federation of Occupational Therapists 2017, 2018, 2019, 2022. 2023, 2024, 2025