

- **Physical Therapy in Burns and Surgical Condition**
- **Motor control and Motor Learning**
- **Health Promotion through the Lifespan**
- **Research Methods in Physical Therapy & Research Project**
- **Research in Evidence-Based PT Practice**
- **Clinical Practice I (Hospital)**
- **Clinical Practice II (Hospital)**
- **Clinical Practice III (Hospital)**
- **Clinical Practice IV (Hospital)**

Bachelor (JUST)

- **Advanced clinical neuroscience**
- **Advanced neurologic physical therapy**
- **Advanced pediatrics physical therapy**
- **Clinical practice in neurology (1)**
- **Clinical practice in neurology (2)**
- **Clinical practice in paediatrics (1)**
- **Clinical practice in paediatrics (2)**
- **Clinical training in physical therapy (1)**
- **Disability and the society**
- **Introduction to physiotherapy**
- **Musculoskeletal anatomy**
- **Musculoskeletal anatomy (lab)**
- **Neuroscience (1)**
- **Neuroscience (1) lab**
- **Pharmacology**
- **PT in neurology (1)**
- **PT in neurology (1) lab**
- **PT in neurology (2)**
- **PT in neurology (2) lab**
- **PT in paediatrics**
- **PT in surgical conditions & burns**

Master (JUST)

- **Advanced Neurological Physical therapy**
- **Advanced Clinical Training in Physical Therapy**
- **Advanced Pediatrics physical therapy**
- **Advanced Clinical Neuroscience**

Clinical Certifications

- **Certified Physical Therapist, Jordan 2005**
- **Diploma - Certified Kinesiotape Practitioner (CKTP) . USA 2012**
- **Certified Personal Trainer (CPT), USA 2013**
- **Physical Therapist Consultant, KSA 2016**
- **Diploma - Certified Ergon IASTM Technique Practitioner, Jordan 2018**
- **Diploma - Certified Dry Needling Practitioner, USA 2019**
- **National Academy of Sports Medicine (NASM) 2020**
 - Certified Personal Training (CPT)
 - Certified Group Fitness Instructor (CGFI)
 - Performance Enhancement Specialization (PES)
 - Corrective Exercise Specialization (CES)
 - Nutrition Certification (CNC)
 - Behavior Change Specialization (BCS)

Special Training Accrued

2002 - 2005	Clinical Practice Department of Physiotherapy and Rehabilitation King Abdullah University Hospital, Irbid, Jordan
2005 - 2006	Clinical Internship Department of Physiotherapy and Rehabilitation King Abdullah University Hospital
2007	Physiotherapy differential diagnosis and treatment for peripheral joints Department of Physiotherapy and Rehabilitation Jordan University of Science & Technology
2011	Clinical Internship Shawnee Mission Medical Center. Kansas City, Kansas
2012	The Kinesio Taping® KT1, KT2 & KT3 Cleveland Chiropractic College, Kansas City, KS
2010 - 2013	BIONESS L300 functional Electrical Stimulation post-Stroke Physical Therapist
2014	Selected terms in the domain university testing, measurements and evaluation Measurement and Evaluation Unit - University of Tabuk – KSA
2015	Taxonomy of course objectives, domains and levels of learning outcomes (Evaluation in the course syllabus) - University of Tabuk, Tabuk - KSA
2017	Establishing course file and field experience University of Tabuk - KSA
2018	Proper Hygiene and Handwashing Workshop University of Tabuk - KSA
2019	Assessment of Learning Outcomes University of Tabuk - KSA
2020	Selection and Application of Statistical Tests in Medical Research Studies University of Tabuk - KSA

- 2022 "تطبيق مصفوفة معايير ضبط جودة تصميم المساقات الإلكترونية من مؤسسة" (Quality Matters)"
- 2022 "تقييم العملية التدريسية والبحث العلمي لزيادة مستوى نجاح الطلبة وآليات تفعيل مشاركتهم في الصفوف الكبيرة"

Clinical Work Experience

Clinical Experience:

- 06/2005 – Present **Physical Therapist (Private clinical work)**
 Home health
 Jordan
- 10/2006 – 12/2007 **Physical Therapist (Inpatient/outpatient/home-health)**
 Department of Physiotherapy and Rehabilitation
 King Abdullah University Hospital - Jordan
- 2010 – 2012 **Physical Therapist – Musculoskeletal (Physical therapy interventions for Patients with Low Back Pain)**
 University Of Kansas Medical Center
- 2010 – 2013 **Physical Therapist – HEAL lab (Physical therapy interventions for Diabetic Neuropathy)**
 University Of Kansas Medical Center
- 2010 – 2013 **Physical Therapist – HEAL lab (Physical therapy interventions for Chronic stroke survivors - Bioness L300 foot drop system)**
 University Of Kansas Medical Center
- 2011 – 2013 **Physical Therapist – JoyDoc outpatient clinic**
 University of Kansas Medical Center
- 2014 - 2020 Consultant of Physical Therapy – King Khalid Hospital
 University of Tabuk
- 2015 - 2020 Director of clinical Education and internship - University of Tabuk
- 2021- Present Clinical Practice Supervisor - Jordan University of Science and Technology

Academic/research Experience

- 2008-2013 **Graduate teaching assistant**
 Department of Physical Therapy and Rehabilitation Science
 University of Kansas Medical Center - USA
- 2008 – 2013 **Graduate research assistant**

	Landon Center on Aging, Department of Physical Therapy and Rehabilitation Science University of Kansas Medical Center - USA
2009 – 2013	Graduate research assistant Hoglund Brain Imaging Center University of Kansas Medical Center Department of Physical Therapy and Rehabilitation Science – USA
2011 – 2013	Graduate research assistant Georgia Holland Research Lab Department of Physical Therapy and Rehabilitation Science University of Kansas Medical Center – USA
2013	Visiting Lecturer Department of Physical Therapy - University of Saint Mary - USA
2014-2020	Assistant Professor - Department of Physical Therapy, University of Tabuk - KSA
2021 - Present	Assistant Professor - Department of Rehabilitation Sciences - JUST - Jordan

Research experience

Distant research assistant (Human Brain Plasticity and Recovery Lab) - Carmen M. Cirstea, MD, PhD (Ongoing)

Stroke, Traumatic Brain Injury, Spinal Cord Injury, Brain Mapping, Development of New Restorative Therapies

Graduate research assistant, Landon Center on Aging, KUMC, 05/2008 - 05/2009 Research
adviser: Nandini Deshpande, PhD

Aging effect on Vestibular Functions (Dynamic visual Acuity) and its underlying mechanisms.

Graduate research assistant, Hoglund Brain Imaging Center, KUMC 05/2009 – 08/2013

Research advisor: Carmen M. Cirstea, MD, PhD

Understand the mechanisms underlying plastic changes in the injured/uninjured adult human central nervous system and their functional relevance.

Graduate research assistant, Landon Center on Aging, KUMC, 04/2009 – 12/2009 Research
adviser: Wen Liu, PhD

Examine the effects of a substitute vestibular information system using the BrainPort® balance device in stroke survivors with chronic vestibular dysfunction.

Graduate research assistant, Clinical Orthopedic Research Laboratory, KUMC, 01/2010 – 12/2011 Research
adviser: Neena Sharma, PT, PhD, CMPT

Understand biochemical and neural mechanisms contributing to chronic pain syndromes and the efficacy of various physical therapy interventions in modulating pain

Graduate research assistant, Georgia Holland Research Lab, KUMC, 06/2012 – 08/2013

Research advisor: Patricia Kluding, PT, PhD

Health promotion interventions for people with diabetes

Graduate research assistant, Bioness Inc, 01/2010 – 01/2013 Research

adviser: Patricia Kluding, PT, PhD

Functional Ambulation: Standard Treatment vs. Electronic Stimulation Therapy (FASTEST) Trial in Chronic Post-Stroke Subjects with Foot Drop

Graduate research assistant, Mechanical Engineering - University of Kansas, 06/2011 – 08/2012 Research

adviser: Kenneth J. Fischer, PhD

Stroke rehabilitation enhancement with dvd-guided visualization

Graduate research assistant, Research in Exercise and Cardiovascular Health (REACH) laboratory, KUMC, 02/2013 – 08/2013

Research adviser: Sandra Billinger, PT, PhD

Understanding cardiovascular and pulmonary adaptation in Stroke survivors

Graduate research assistant, Hoglund Brain Imaging Center- 01/2013 – 08/2013

Research advisor: William Brooks, PhD

Understand the mechanisms underlying normal function and recovery from traumatic brain injury

Academic Committees

Accreditation Committee, University of Tabuk

Academic Counseling Committee, University of Tabuk

Exit Exam Committee, University of Tabuk

Exams Revision Commission, University of Tabuk

Evaluation and Measurement Committee, University of Tabuk

Faculty of applied Medical Sciences (FAMS) Development and quality Committee, University of Tabuk

Nursing-PT department council committee, University of Tabuk

Student Research Committee, University of Tabuk

Clinical Practice and Internship committee (Head), University of Tabuk

Scientific Committee (FAMS), Member, University of Tabuk

Program and syllabi Revision committee, University of Tabuk

Professional memberships

Jordanian Physical Therapists Association (JPTA) - Jordan

American Physical Therapy Association (APTA) - USA

Saudi Physical Therapy Association (SPTA) - KSA

Aerobics and Fitness Association (AFAA) – USA

National Academy of Sports Medicine (NASM) - USA

American Physical Therapy Board of Healing Arts License (Kansas, USA) - in work

Society for Neuroscience

Society of Motor Control

The Kinesio Taping® Association International (KTAI)

Functional Integrated Dry Needling Institute (FIDN-LTD UK)

Honors and Awards

- Honor for Graduation (first 10%) - Department of Physiotherapy and Rehabilitation, Jordan University of Science and Technology (JUST), Irbid, Jordan, 2005
- Honor for Professional Work in Orthopedics Rehabilitation - Dr. Mohammad Akram Awwad, MD, Orthopedic surgeon- King Abdullah University Hospital, Assistant professor- Jordan University for Science and Technology,
- Outstanding Student Performance Award – Department of Physical Therapy and Rehabilitation Science, University of Kansas Medical Center, 2008
- The President’s Honor Roll for outstanding achievement - Kansas City Kansas Community College, 2009
- Honor for Outstanding Teacher - Teaching the University of Kansas Doctor of Physical Therapy (DPT) curriculum. The highest number teaching hours than any Teaching assistant in the history of the program - Department of Physical Therapy - University of Kansas Medical Center (KUMC) (Dr. Lisa Stehno-Bittle), 2009 - 2013

Relevant leadership experience

Clinical Supervisor - undergraduate physical therapy students - Jordan University for Science and Technology (JUST) 01/2005 – 1/2008

Graduate Teaching Assistant - Department of Physical Therapy and Rehabilitation Science, University of Kansas Medical Center, 08/2008 - 08/2013

Clinical Supervisor - physical therapy students (DPT) – JoyDoc Clinic (University of Kansas Medical Center) 01/2011 – 08/2013

Clinical Supervisor - Physical therapy students - University of Tabuk (2014 – 2-20)

Academic Coordinator/Director of Clinical Education, University of Tabuk (2014 - 2020)

Research Supervisor - Students' Graduation Projects

Director of Clinical Education and Internship - Department of Physical Therapy - University of Tabuk (2014 - 2020)

Publications

Peer-reviewed publications

Tourtillott BM, Ferraro JA, **Bani-Ahmed A.**, Almquist E, Deshpande N. "Age-related changes in vestibular evoked myogenic potentials using a modified blood pressure manometer feedback method." *Am J Audiol* 19(2): 100-108. 2010

Cirstea MC, Brooks WM, Craciunas CS, Popescu AE, Choi I, Lee S, **Bani-Ahmed A.**, Yeh HW, Savage CR, Cohen LG, Nudo RJ. Primary motor cortex in stroke – a functional MRI-guided proton magnetic resonance spectroscopic study. *Stroke*, ISSN 0039-2499, 42(2): 4002-9, 2011

Craciunas SC, **Bani-Ahmed A.**, Brooks WM, Nudo RJ, Popescu AE, Choi Y, Lee S, Cirstea CM. Metabolic profile of motor cortex in stroke. *Stroke* ISSN 1524-4628, 42: e266-267, 2011

Cirstea MC, Savage CR, Nudo RJ, Cohen L, Yeh HW, Choi I, Lee S, Craciunas CS, Popescu AE, **Bani-Ahmed A.**, Brooks WM. Handgrip-related activation in primary motor cortex relates to underlying neuronal metabolism after stroke. *Neurorehabil Neural Repair*. 2014 Jun;28(5):433-42. doi: 10.1177/1545968313516868. Epub 2013 Dec 27.

Fischer KJ, Liu W, Clayton Wauneka C, **Bani-Ahmed A.**, Kluding P. Stroke Rehabilitation Enhancement with dvd-guided Visualization. ASME 2013 Summer Bioengineering Conference, 2013. Paper No. SBC2013-14090, pp. V01AT20A006; 2 pages doi:10.1115/SBC2013-14090

Bani-Ahmed A. The Effect of Linguistic Ability on the variance of Students' Scores: A proposed Approach For Validating Scores (2017). *Journal of Education*. Al-Azhar University. Issue 171 (Part one).

Abdullah N. Alshahrani, Mohammed N. Alshahrani, **Bani Ahmed A.** Evaluation of Knowledge regarding Shaken Baby Syndrome among Parents in Tabuk City. *The Egyptian Journal of Hospital Medicine* (July 2018) Vol. 72 (11), Page 5600-5603

Bani-Ahmed, A. (2018). The evidence for prolonged muscle stretching in ankle joint management in upper motor neuron lesions: considerations for rehabilitation – a systematic review. *Topics in Stroke Rehabilitation*, 26(2), 153–161. <https://doi.org/10.1080/10749357.2018.1550958>

Ali A. Bani-Ahmed. Functional Gait Parameters As Objective Assessment Tools In Patients With Chronic Low Back Pain: A Case Study. *Int J Physiother Res* (2019);7(2):2997-3002. DOI: 10.16965/ijpr.2018.202

Bani-Ahmad A The Functional Recovery and the Associated Cortical Reorganization Following Constraint-Induced Movement Therapies (CIMTs) in Stroke. *Journal of Physical Therapy Science* (2019). DOI: 10.1589/jpts.31.950

Bani-Ahmad A. Mobility Safety in Chronic Elderly Stroke: Evaluation and Assessment A Narrative Review of the Current Literature and Future Directions. *The Egyptian Journal of Hospital Medicine* (2019). DOI: 10.12816/EJHM.2019.55485.

Bani-Ahmad A. Cirstea MC. Ipsilateral primary motor cortex and behavioral compensation after stroke: a case series study. *Experimental Brain Research* 238(4) (2020). DOI: 10.1007/s00221-020-05728-8.

Austin T, **Bani-Ahmed A**, Cirstea MC. N-Acetylaspartate Biomarker of Stroke Recovery: A Case Series Study. *Front Neurosci Res.* 2021;2:100007. Epub 2021 Mar 31. PMID: 34296219; PMCID: PMC8294783.

Ali A. Bani-Ahmed, Roqaya K. Al-Bawaneh, Eihab Khasawneh, Alham Al-Shorman, Hasan Al-Omari. Parental Awareness Regarding Shaken Baby Syndrome and Associated Factors in Jordan. *Jordan Journal of Nursing Research*, Volume 2, No. 4, 2023. DOI: <https://doi.org/10.14525/JJNR.v2i4.05>

Al-Sharman A, Al-Sarhan A, Aburub A, Shorman R, **Bani-Ahmad A**, Siengsukon C, Bani Issa W, Abdelrahim DN, Hijazi H, Khalil H. Quality-of-life among women with breast cancer: application of the international classification of functioning, disability and health model. *Front Psychol.* 2024 Feb 1;15:1318584. DOI: [10.3389/fpsyg.2024.1318584](https://doi.org/10.3389/fpsyg.2024.1318584)

Omar F. Khabour, Mahmoud A Alomari, **Bani-Ahmed A**. The Adverse Impact of Waterpipe Dependence on Emotions: The Obesity Factor. *Asian Journal of social Health and Behavior* (Accepted July 18, 2024)

Ali A. Bani-Ahmed, Dalia M. Al-Baghdadi, Rana A. Hussein. Variations in Depression and Anxiety among Jordanian Women Undergoing Mastectomy and Reconstruction Surgery: Impact of Familial Support. *Asian Pacific Journal of Cancer Prevention* (Accepted July 22, 2024).

Manuscripts under review (accepted under revision)

Bani-Ahmed A (2019). " The Phasic Influence of Vestibular Neural Inputs During Sit-to-Stand: A Case Report. *Neuroreport.*

Bani-Ahmed A, Cirstea MC (2019). Maladaptive contralesional primary motor cortex reorganizational changes in chronic stroke - a case series study. *Experimental Brain Research.*

Manuscripts in preparation

Bani-Ahmed A et al. Motor learning effects on functional connectivity within motor system after stroke. For *J Neurological Physical Therapy*

Cirstea MC, **Bani-Ahmed A**, et al. Intervention-related cerebral metabolites changes in stroke. For *Stroke*

Bani-Ahmed A. Molecular Mechanisms underlying exercise-induced angiogenesis: A review. For *Journal of Novel Physiotherapies*

Bani-Ahmed A, Cirstea MC, Primary motor cortex activation correlates better with subcomponents of that total Fugl-Meyer. For *J Neurological Physical Therapy*

Bani-Ahmed A, Cirstea MC Kinematic Versus Clinical Metrics of Arm Motor Impairment and Motor Related Primary Motor Cortex activation In Chronic Stroke. For *International Journal For physical Therapy Research And Practice.*

Manuscripts with acknowledgment

Primary somatosensory cortex in chronic low back pain – a ¹H-MRS study. Neena K Sharma,¹ Kenneth McCarson,² Linda Van Dillen,⁵ Angela Lentz,¹ Talal Khan,³ and Carmen M Cirstea^{1,4}. *J Pain Res.* 2011; 4: 143–150.

Abstracts

Bani-Ahmed A et al. Analysis and Management of Gait Abnormalities (graduation thesis). Jordan University for Science and Technology, 2005

Bani-Ahmed A et al. Trunk kinematics for maintaining dynamic visual acuity: effects of age. *International Society for Gait and Posture Research*, Bologna, Italy, June, 2009

Sharma NK, McCarson K, Van Dillen L, Brooks WM, Khan T, Wilson S, **Bani-Ahmed A**, Cirstea MC. 1H-MRS

- cortical measurements in chronic low back pain. *Society for Neuroscience*, 40th Annual Meeting San Diego, 2010
- Bani-Ahmed A**, Brooks WM, Nudo RJ, Craciunas SC, Popescu EA, Choi I, Lee S, Yeh H, Cirstea MC. Metabolite distribution across primary and secondary motor areas in chronic stroke. *Society for Neuroscience*, 40th Annual Meeting San Diego, 2010
- Craciunas SC, Aschie M, Iliesiu A, **Bani-Ahmed A**, Cirstea MC. Intramedullary spinal cord tumors: neuroimaging features predict thistopathology. *Society for Neuroscience*, 40th Annual Meeting San Diego, 2010
- Cirstea MC, Brooks WM, Craciunas CS, Popescu AE, Choi I, Lee S, Yeh H, **Bani-Ahmed A**, Nudo RJ. Stroke recovery neural predictors. *Society for Neuroscience*, 40th Annual Meeting San Diego, 2010
- Sharma NK, McCarson K, Van Dillen L, Brooks WM, Khan T, Wilson S, **Bani-Ahmed A**, Cirstea MC. 1H-MRS cortical measurements in chronic low back pain. *Interdisciplinary World Congress on Low Back and Pelvic Pain*, LA, 2010
- Craciunas SC, **Bani-Ahmed A**, Brooks WM, Nudo RJ, Popescu AE, Choi Y, Lee S, Cirstea CM. Metabolic profile of motor cortex in stroke. *International Stroke Conference*, Los Angeles, 2011
- Sharma N, Talal N, McCarson K, Van Dillen L, Brooks WM, Lentz A, **Bani-Ahmed A**, Popescu EA, Cirstea MC. Effects of exercise training on cortical biochemistry in chronic low back pain. *Society for Neuroscience*, 41th Annual Meeting, Washington, 2011
- Bani-Ahmed A**, Cirstea MC. Does cortical functional connectivity depend on stroke severity? *KUMC Students Research Forum*, Kansas City, 2011
- Bani-Ahmed A**, Nudo RJ, Brooks WM, Savage CR, Yeh H, Cirstea MC. Cortical functional connectivity depends on stroke severity. *Progress in Motor Control VIII*, Cincinnati, 2011
- Cirstea MC, Yeh H, Popescu EA, **Bani-Ahmed A**, Choi I, Lee P, Craciunas SC, Brooks WM. Is metabolic connectivity across spared non-primary motor areas altered in stroke? *ISMRM*, 20th Annual Meeting, Melbourne, 2012
- Craciunas SC, **Bani-Ahmed A**, Nudo RJ, Brooks WM, Popescu AE, Cirstea MC. Motor and premotor cortices biochemistry and motor impairment in stroke. *Society for Neuroscience*, 42th Annual Meeting, New Orleans, 2012
- Cirstea MC, **Bani-Ahmed A**, Nudo RJ, Brooks MW, Savage CR, Craciunas CS, Popescu EA. Primary motor cortex in stroke – relationship between functional and biochemical measures. *Society for Neuroscience*, 42th Annual Meeting, New Orleans, 2012
- Craciunas, CS, Gorgan RM, **Bani-Ahmed A**, Cirstea, MC. Is “metabolic coupling” across primary motor areas and cerebellum altered in cervical myelopathy? *Romanian Society of Neurosurgery Congress*, Bucharest, 2012
- Craciunas, CS, Gorgan RM, Medrea M, **Bani-Ahmed A**, Cirstea, MC. Cortical and cerebellar neurometabolic alterations in cervical myelopathy. *AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*, Phoenix, 2013
- Fischer KJ, Liu W, Clayton Wauneka C, **Bani-Ahmed A**, Kluding P. Stroke Rehabilitation Enhancement with dvd-guided Visualization. *ASME 2013 Summer Bioengineering Conference*, 2013
- Bani-Ahmed A**, Cirstea MC. Primary motor cortex activation correlates better with subcomponents of than total Fugl-Meyer. *Kansas University Medical Center Students Research Forum*, Kansas City, 2013
- Mcfarlan K, **Bani-Ahmed A**, Cirstea MC. Motor cortex in sub-acute mild stroke – amagnetic resonance spectroscopy study. *Kansas University Medical Center Students Research Forum*, Kansas City, 2013
- Bani-Ahmed A**, Cirstea MC. Motor- premotor functional connectivity depends on stroke severity. *Kansas Physical Therapy Association*, Wichita 2013.
- Bani-Ahmed A**, Nudo RJ, Savage CR, Brooks WM, Wick JA, Craciunas SC, Cirstea MC. Primary motor cortex activation correlates better with kinematic than clinical metrics of arm motor impairment in chronic stroke. *Society for Neuroscience*, 43th Meeting, San Diego, 2013
- Cirstea MC, **Bani-Ahmed A**, Nudo RJ, Savage CR, Brooks WM, Craciunas SC. Motor cortical reorganization and true recovery after stroke. *Society for Neuroscience*, 43rd Annual Meeting, San Diego, 2013
- Craciunas SC, **Bani-Ahmed A**, Gorgan MR, Cirstea MC. Remote cerebral inflammatory response predicts clinical output after decompressive surgery in cervical spondylotic myelopathy. *Society for Neuroscience*, 43th Annual Meeting, San Diego, 2013

Cirstea MC, **Bani-Ahmed A**, Nudo RJ, Savage CR, Brook WM, Yeh H_W. Primary motor cortex activation correlates better with kinematic than clinical metrics of arm motor impairment in chronic stroke. Society for Neuroscience (SFN) 2014

Bani-Ahmed A . Cirstea MC, Primary motor cortex and "true motor recovery in chronic Stroke. *Neurological Disorders and stroke 2016, 2nd international conference, Dubai 2016*

Bani-Ahmed A . The effect of Kinesiotape on Functional Gait Parameters in Patients with Chronic Low back Pain: A case study. *FAMS Research Day*. University of Tabuk 2018.

Yazan E. Al-kharabsheh, Anas S. Hmade, **Ali Bani-Ahmed**, Esam Al-Khawaja, Marwan Altaher, Ismail Alfalojy, Ifeoma Anunoby, 2 Carmen M. Cirstea. Spastic cerebral palsy A retrospective cohort study in Jordan: functional outcomes after selective dorsal rhizotomy surgery. AAP/ASCI/APSA JOINT MEETING 2022.

References

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