

CURRICULUM VITAE

Dr. Mohammed Sabah Jarjees

July 2018

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EDUCATION

2012 – 2017 Doctor of Philosophy in Biomedical Engineering, Department of Biomedical Engineering, College of Science and Engineering, University of Glasgow, Glasgow United Kingdom

Thesis: The Causality between Electroencephalogram (EEG) and Central Neuropathic Pain (CNP), and the Effectiveness of Neuromodulation Strategies on Cortical Excitability and CNP in Patients with Spinal Cord Injury

2003 – 2005 Technical Master Degree in Medical Instrumentation Technology Engineering, Department of Medical Instrumentation Technology Engineering, Technical Engineering College of Mosul, Mosul, IRAQ.

Dissertation: Design and Implementation of LASER Irradiation System in Medical Application.

1998 - 2002 Bachelor of Engineering in Medical Instrumentation Technology Engineering, Department of Medical Instrumentation Technology Engineering, Technical Engineering College of Mosul, Mosul, IRAQ

ACADEMIC EMPLOYMENT

September 2017–Present	Head of Medical Instrumentation Technology Engineering Department, Technical Engineering College of Mosul, Mosul, IRAQ
November 2011–September 2017	Lecturer, Medical Instrumentation Technology Engineering Department, Technical Engineering College of Mosul, Mosul, IRAQ
May 2006– November 2011	Assistant Lecturer, Medical Instrumentation Technology Engineering Department, Technical Engineering College of Mosul, Mosul, IRAQ

AWARDS, COURSES AND TALKS

AWARDS:

- Awarded the best poster award at the North British Pain Association winter meeting, Edinburg, United Kingdom, November 2016.
- Awarded the best PhD student paper award in the 9th IEEE EMBS UK & Republic of Ireland Postgraduate Conference on Biomedical Engineering and Medical Physics, Liverpool, United Kingdom, July 2015.

COURSES:

- Training course in Spasticity Management–A Multidisciplinary Approach, London, United Kingdom, February 2015.
- Training course in The Autumn Beginners Neurofeedback Course, London, United Kingdom, October 2013.
- Training course in the project for “Training Program for Iraqi Personnel in Egypt (TRIP)” in Iraq – Egypt – German project, December, 2008.
- Attended an *Academic Day* on “*Graphical System Design for Engineering Education*,” hosted by National Instruments July, 2006, Beirut, Lebanon.

TALKS

- Presented lecture entitled “*Gamma Camera Instrument*” in *cultural and Educational event* hosted by Technical College of Mosul May, 2006, Mosul, Iraq.
- Presented lecture entitled “*Application of Laser in Medical Field*” in *cultural and Educational event* hosted by Technical College of Mosul May, 2005, Mosul, Iraq.

PUBLICATIONS

Aleksandra Vuckovic, Mohammed Jarjees, Mariel Purcell, Helen Berry, Matthew Fraser, (2018), ***"Electroencephalographic predictors of neuropathic pain in subacute spinal cord injury"***. The Journal of Pain,

Aleksandra Vučković, Mohammed Jarjees, Muhammad Abul Hasan, Makoto Miyakoshi, Matthew Fraser, (2018), ***"Central Neuropathic Pain in Paraplegia Alters Movement Related Potentials"***. Clinical Neurophysiology, 129 (8), 1669-1679.

Aleksandra Vuckovic, Vicente Jose Ferrer Gallardo, Mohammed Jarjees, Mathew Fraser, Mariel Purcell, (2018) ***"Prediction of central neuropathic pain in spinal cord injury based on EEG classifier"***. Clinical Neurophysiology, 129 (8), 1605-1617.

Mohammed Jarjees, Aleksandra Vuckovic, (2016) ***"The effect of voluntary modulation of the sensory-motor rhythm during different mental tasks on H reflex"***. International Journal of Psychophysiology, 106, 65-76.

Mohammed Jarjees, (2011) ***"Design and Implementation of Microcontroller Based Portable Drug Delivery System"***. Engineering and Technology Journal, 29, 11.

CONFERENCE PRESENTATIONS

Mohammed Jarjees, Matthew Fraser, Margaret Purcell, Aleksandra Vuckovic, ***"Cortical Predictors of Central Neuropathic Pain (CNP) in Sub-acute Patients with Spinal Cord Injury (SCI)"***, British Pain Society, Annual Scientific Meeting 2016, Harrogate, UK, 10th –12th May 2016.

Mohammed Jarjees, Matthew Fraser, Margaret Purcell, Aleksandra Vuckovic, ***"Cortical Predictors of Central Neuropathic Pain (CNP) in Sub-acute Patients with Spinal Cord Injury (SCI)"***, Scottish Pain Research Community (SPaRC), Sixth Annual Scientific Meeting, Dundee, UK, 18th March 2016.

Mohammed Jarjees, Aleksandra Vuckovic, ***"Neurofeedback Treatment of Central Neuropathic Pain (CNP) in Sub-acute Patients with Spinal Cord Injury (SCI)"***, The 9th IEEE EMBS UK & Republic of Ireland Postgraduate Conference on Biomedical Engineering and Medical Physics, Liverpool, UK, 14th – 16th July 2015.

Mohammed Jarjees, Aleksandra Vuckovic, ***"Modulation of H Reflex Amplitude during Mental Tasks in Able Bodied Volunteers"***, The 25th Congress of the international Society of Biomechanics ISB 2015, Glasgow, UK, 12th July 2015.

Mohammed Jarjees, Aleksandra Vuckovic, ***"Effect of Voluntary Modulation of Alpha Rhythm over The Primary Motor Cortex on The Hoffmann Reflex"***, The First HCED Scholars Conference 2015, London, UK, 29th May 2015

Mohammed Jarjees, Aleksandra Vuckovic, “*Effect of Voluntary Modulation of Alpha Rhythm over the Primary Motor Cortex on the Hoffmann Reflex*”, Glasgow Neuroscience Day 2015, Glasgow, UK, 16th January 2015,

Ahmed J. Ali, Mohammed S. Jarjees, Mohammed F. Abdullah, “*Design of PID Fuzzy Controller*” cultural and Educational event, Foundation of Technical Education, Bagdad, Iraq, 2007.

TEACHING EXPERIENCE

- Medical instrumentation
- Digital Signal processing
- Medical Image processing
- Digital techniques
- Computer applications (Matlab, Visual Basic, Labview, etc...)

RESEARCH INTERESTS

- Biomedical Signal Processing
- Medical Imaging Processing
- Medical Sensors and Medical Instrumentation
- Neuromodulation and Neurofeedback
- Brain-computer interface