BALAZS RADELECZKI

PERSOLNAL INFO

Balazs Radeleczki

23. 11. 2023, Miskolc

radeleczki.balazs@wigner.hu

LANGUAGE

ENGLSH | "C" complex intermediate (B2) examination, 2014

PROGRAMING SKILLS

python | Actively used, software developement, data processing

MATLAB | Actively used, software developement, data processing

C++ | Intermediade experience, software developement, data processing

MS Office | Actively used (Word, Excel, PowerPoint)

RESEARCHER

Research fields: Analyzing muscle synergies, measuring and modeling cyclic human movements.

EDUCATION

ROSKA TAMÁS DOCTORAL SCHOOL OF SCIENCES AND TECHNOLOGY, PÁZMÁNY PÉTER CATHOLIC UNIVERSITY, FACULTY OF INFORMATION TECHNOLOGY AND BIONICS

Phd student

TOPIC: INFO-BIONICS ALGORITHMS

2021 -

PÁZMÁNY PÉTER CATHOLIC UNIVERSITY, FACULTY OF INFORMATION TECHNOLOGY AND BIONICS

Computer Science Engineer MSc

TITLE: TRAINED NEURAL NETWORK ON ELECTROMYOGRAPHIC DATA FOR THE CONTROL OF CRANKING MOVEMENTS

2019 - 2021

PÁZMÁNY PÉTER CATHOLIC UNIVERSITY, FACULTY OF INFORMATION TECHNOLOGY AND BIONICS

Molecular Bionic Engineer Bsc

TITLE: IMAGE SEGMENTATION OF CHROMOSOMES ON MICROSCOPE RECORDS WITH MACHINE LEARNING

2015 - 2019

WORKING EXPERIENCE

WIGNER RESEARCH CENTRE FOR PHYSICS

ASSISTANT RESEARCH FELLOW

2021 -

REHABILITATION DEPARTMENT FOR SPINAL CORD INJURIES IN NATIONAL INSTITUTE OF MEDICAL REHABILITATION HUNGARY

RESEARCHER

2022 -

INTERSHIP AT ROBERT BOSCH KFT.

DRIVING-ASSISTANCE PROGRAM DEVELOPER

2019 - 2020

GRANT

- Participating in the KD-OORI-TKP 2021 5.0. program „Procurement of a system containing 3D force plateaus for testing the effectiveness of cycling training for spinal cord injured persons assisted by functional electrical stimulation within the framework of the TKP 2021-EGA subprogramme."

PUBLICATIONS

- Radeleczki, B, M Mravcsik, L Botzheim, and J Laczko. 2022. **"Prediction of Leg Muscle Activities from Arm Muscle Activities in Arm and Leg Cycling."** *ANATOMICAL RECORD. doi:10.1002/ar.25004.*

- Radeleczki B , Botzheim L, Nagy N, Laczko J, Mravcsik M, (2023) **"Change of ground reaction force and center of pressure in walking of spinal cord injured patients after FES cycling training – case studies"** abstract is submitted to Progress in Motor Control XIV.

- Botzheim L, Radeleczki B, Mravcsik M, Barroso F O, Laczko J, (2023) **"Investigation of muscle synergies during simultaneous arm-leg cycling – Case study",** abstract is submitted to Progress in Motor Control XIV.

- Mayer P, Zenatai N, Mravcsik M, Bartók H, Radeleczki B, Laczkó J (2022). **"The effect of body position on the spasticity of quadriceps muscle after spinal cord injury"**, No. 303.15 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience