

Weronika (Slasko) Piatkowska

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date of birth: 18.05.1993



Education

- 2018 - now **Ph.D. School in Information Engineering**
University of Padova
Curriculum: Bioengineering
Thesis: Electromyography as a tool for identifying biomarkers of Diabetes, its related complications and X-Fragile Syndrome
- 2016 – 2017 **Faculty of Electrical, Electronic, Computer and Control Engineering**
Lodz University of Technology, Lodz, Poland
MSc Biomedical Engineering, GRADE: Excellent (5.50 (over 5.50))
Diploma thesis: Analysis of EMG signal from lower limb muscles among healthy persons and diabetics
Grade point average: 4.90 (over 5.00)
- 2017
(March - July) **Biomovement Laboratory**
University of Padua, Padua, Italy
Erasmus+ semester
Project: Development of an algorithm for detecting Surface Electromyographic onset in diabetic subjects and controls during dynamic contractions
- 2012 – 2016 **International Faculty of Engineering**
Lodz University of Technology, Lodz, Poland
BSc Biomedical Engineering, GRADE: Very Good (5.00 (over 5.50))
Diploma Thesis: Development of Arduino-based EMG measurement system for real-time Human-Computer Interaction
Grade point average: 4.50 (over 5.00)
- 2015
(March - July) **University of Padua, Padua, Italy**
Erasmus+ semester

Experience

- 10/2017 – 10/2018 **Client Coordinator - Aptvision Ltd, Lodz, Poland**
Implementing and configuring radiology software for diagnostic imaging. Supporting European customers, providing trainings for radiologists. Configuration of SQL database.
- 03/2017 – 07/2017 **Thesis project – Biomovement Laboratory, Padova, Italy**
Development of Matlab code for filtering and detecting muscle contractions in electromyographic signals. Participation in data acquisition.
- 07/2014 - 08/2014 **Summer Intern – Famed Lodz S.A., Lodz, Poland**
Internship in the company producing medical equipment, **mainly surgical and diagnostic lamps. Participation in the** process of prototyping new products using CAD software and conducting quality control of products.

Publications, and/or products, services or other achievements

List of publications on conference proceedings

- Sawacha Z, Spolaor F, Cibin F, Slasko W, Pavan D, Guiotto A, Polli, R, Ricca M, Murgia A. “Gait analysis in children with fragile x syndrome: could this become a measurable outcome?” 14th Troina Meeting on Genetics od Neurodevelopmental Disorders. Troina, 4-6 aprile 2019, Troina (EN), Italy.
- Sawacha Z, Spolaor F, Cibin F, Slasko W, Guiotto A, Ricca M, Polli, R, Murgia M. “Gait analysis in fragile x syndrome.” Proceedings 19th International Workshop on Fragile X and other Neurodevelopmental Disorders, September 18-21, 2019, Sorrento, Italy.
- Sawacha Z, Spolaor F, Cibin F, Slasko W, Pavan D, Guiotto A, Polli, R, Murgia A. “Gait analysis in children with x fragile syndrome: a combined emg and markerless approach.” Proceedings International Society of Biomechanics (ISB) 2019, July 31 - August 4, Calgary, Canada.
- Slasko W, Spolaor F, Sawacha Z, Guiotto A, Guarnieri G, Avogaro A. “How do different activities impact on the detection of muscle’salterations in diabetes subjects with and without neuropathy?” Gait & Posture, Volume 73, Supplement 1, 2019, Pages 418-419.
- Sawacha Z, Spolaor F, Cibin F, Slasko W, Pavan D, Guiotto A, Polli, R, Ricca M, Murgia A. “Gait analysis in children with Fragile X Syndrome: could this become a measurable outcome?” Gait & Posture, Volume 73, Supplement 1, 2019, Pages 399-400.
- Sawacha Z, Spolaor F, Cibin F, Slasko W, Pavan D, Guiotto A, Polli, R, Ricca M, Murgia A. “Surface emg during gait in children with fragile x syndrome: could this become a measurable outcome?” Gait & Posture, Volume 74, Supplement, September 2019, Pages 35-36

- Slasko W, Spolaor F, Sawacha Z, Guiotto A, Guarneri G, Avogaro A. “Task dependent abnormal muscle activity in diabetes subjects with and without neuropathy: comparison among overground and treadmill walking, stair negotiation.” Proceedings SIAMOC 2019. Bologna: p. 141. DOI 10.6092/unibo/amsacta/6260.
- W. Piatkowska, F. Spolaor, A. Guiotto, G. Guarneri, A. Avogaro, Z. Sawacha „EMG analysis across different tasks improves prevention screenings in diabetes.” European Society for Movement Analysis in Adults and Children (ESMAC), 17th September 2020
- Z. Sawacha, F. Spolaor, F. Cibin, W. Piatkowska, D. Pavan, A. Guiotto, R. Polli, M. Ricca, A. Murgia "Alterations in surface EMG during gait in children with Fragile X Syndrome” European Society for Movement Analysis in Adults and Children (ESMAC), 17th September 2020.
- W. Piatkowska, Z. Sawacha, F. Spolaor, M. Romanato, S. Voltan, F. Cibin, D. Pavan, A. Guiotto, R. Polli, A. Murgia "Cluster analysis of electromyographic data in children with Fragile X Syndrome and controls” European Society for Movement Analysis in Adults and Children (ESMAC), 17th September 2020.

Languages

Polish	Native
English	C1
Italian	B2

Skills & competences

Computer skills	MATLAB, SQL, Microsoft Office, Python, SPSS, Orange
Presentation skills	Acquired by frequent presentations at home university
Personal skills	Stress resistance, conscientiousness, ability to work in a group
Signal and Image processing	Acquired along with the engineering background at home university and during Erasmus+ exchange

I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2015, item 2135 as amended.