

Andreea-Ioana Sburlea

Personal information:

Date of birth: 1987-11-06
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Education:

- Nov. 2012 – Feb. 2016 **Marie Curie PhD fellowship at Biomedical Engineering School** of University of Zaragoza, Spain *PhD thesis: „EEG-based brain-computer interfaces for detection of gait intention in healthy and stroke subjects”*
- 2010 – 2012 **Master program on Human-Media Interaction** at the University Twente, Enschede, The Netherlands *Master thesis: „Effects of light priming and encouraging feedback on the neural and behavioral responses in a general knowledge task”*
- 2006 – 2010 **Faculty of Electronics, Telecommunications and Information Technology**, Polytechnical University of Bucharest, Romania, „Electronics and Telecommunications” Department, *Bachelor Thesis: "Dual Tone Multi frequency Receiver (DTMF)"*

Professional experience:

- May 2016 – present Post-doctoral researcher in the ERC Consolidator project “Feel Your Reach” in the Institute of Neural Engineering at the Biomedical Engineering Faculty of Graz University of Technology, Graz, Austria
- Nov. 2012 – Nov. 2015 Marie Curie Early Stage Researcher in BitBrain Technologies, Zaragoza, Spain Sept. 2011 – Aug. 2012 Internship and Master thesis at Philips Research in the BB&B Department (Brain, Body and Behaviour), Eindhoven, The Netherlands March – Aug. 2011 Student Assistant in the Human Media Interaction Department of Electrical Engineering, Mathematics and Computer Science, (EEMCS) of University of Twente

• Projects

Feel Your Reach (ERC Consolidator Grant) – funded my post-doctoral research activity

NETT (Neural Engineering Transformative Technologies) – funded my research activity and I have participated in the organization of the ICSLANE conference in Barcelona.

HYPER (Hybrid Neuroprosthetic and Neurorobotic Devices for Functional Compensation and Rehabilitation of Motor Disorders) – performed data collection, analysis and detection of walking intention from EEG signals in chronic stroke patients, during multiple sessions

CORBYS (Mobile Robot-assisted Gait Rehabilitation System) – performed real-time detection of walking intention from brain activity in healthy subjects and controlled the exoskeleton

• Poster presentations and seminars

- Aug. 2018 2nd Hand, Brain and Technology conference, Ascona, Switzerland
- May 2018 7th International Brain-Computer Interface meeting, Asilomar Conference Center in Pacific Grove, California, USA

Sept. 2017	7th International Brain-Computer Interface Conference at Graz University of Technology, Austria
Sept. 2015	NETT 1 st International conference on System Level Approaches to Neural Engineering (ICSLANE), Barcelona, Spain
Aug. 2015	37 th annual international conference of the IEEE Engineering in Medicine and Biology Society, Milano, Italy
Sept. 2014	6th International Brain-Computer Interface Conference at Graz University of Technology, Austria

- **Summer/Winter schools and additional training**

Jan. 2015	NETT winter school on Neural Engineering, London, UK
Oct. 2014	Research stay (secondment) at the Institute of complex systems, CNR Florence, Italy
Oct. 2014	ICT Proposer's Day, an event that promoted European ICT Research & Innovation, focusing on the Horizon 2020 Work Programme for 2015, Florence, Italy
Oct. 2014	Python course, Florence, Italy
Sept. 2014	CONTRAST workshop on neurorehabilitation at Graz University of Technology, Austria
July 2013	NETT summer school in the field of neural engineering, Nottingham, UK

- **Referee duties**

Referee for the journals: "Transactions on Biomedical Engineering", "Journal of Neural Engineering", "PeerJ", "NeuroImage", "Journal of Neuroengineering and Rehabilitation", "Transactions on Neural Systems and Rehabilitation Engineering"

- **Online courses**

Coursera platform	<i>Synapses, Neurons and Brains</i> (Hebrew University of Jerusalem), <i>Machine Learning</i> (Stanford), <i>Exploring Neural Data using Python</i> (Brown University)
edX platform	<i>Learning from Data</i> (Caltech)

Research interests: Mathematical modeling, neural engineering, computational neuroscience, machine learning, signal and image processing, human-machine interaction, experimental psychology, movement science, statistical analysis;

Skills:

- *Research Software:* E-Prime, Presentation, ActiView, EEGLab, LaTeX, Fieldtrip;
- *Programming languages:* Matlab, Python, R, C/C++, Java;
- *Design Tools:* OrCAD, Multimedia (Photoshop), InkScape;
- *Languages:* Romanian – mother tongue; English, Spanish – fluent; French – intermediate; German - beginner
- *Social skills:* Good team player, excellent communication skills gained through my collaborative work experience