



Personal information

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Nationality(-ies)	Serbian and Canadian
Date of birth	Oct 3 1990
Gender	female

Education and training

subject of research	PhD at Inria Bordeaux Sud-Ouest
Grant/Scholarship	Computational Modeling of users skills and states to optimize BCI training tasks
Place and Date	Inria BCI-Lift project Doctoral School of Bordeaux, January 2016 - July 2019
subject of research	Intern at INRIA Sophia-Antipolis, April-August, 2015
Grant/Scholarship	Jitter Adaptive Dictionary Learning for multi-channel EEG data
Place and Date	BASILEUS 5
Title of qualification awarded	Sophia Antipolis University in Nice, France; 2014 – 2015
Principal subjects covered	MSc in Computational Biology and Bio-Medicine (September 2015)
Grant/Scholarship	Projet Final Etudiant - Detecting bursts in Retinal Waves,
Place and Date	Signal analysis, Algorithms in structural biology, Neuron dynamics, Modeling gene regulatory networks, Forward and Inverse problems etc
Principal subjects covered	EUROWEB
Grant/Scholarship	Free University of Amsterdam, the Netherlands; 2012 – 2013
Place and Date	Thesis Design in Artificial Intelligence - Music generation with Genetic Algorithm;
Principal subjects covered	Computer Graphics - OpenGL in java, Data Bases - JDBC; Machine Learning methods, metaheuristics - Genetic Algorithm and Variable Neighbourhood Search
Grant/Scholarship	Belgrade University, Faculty of Mathematics; 2009 – 2014
Place and Date	BSc in Computer Science
Title of qualification awarded	

Principal subjects covered

Programming in C, JAVA; Algorithms and Data Structures; Web design - PHP, CSS, JavaScript, DOM; Computer architecture and operating systems; Algebra, Functional Analysis, Numerical Methods, Geometry etc

Place and Date

Belgrade "Third Grammar School" (2005–2009) and Music high-school "Kosta Manojlovic" (2006–2010) with music primary school (2000-2006)

Title of qualification awarded

Grammar school diploma with a B2 certificate of French and Music high-school diploma for a music producer

Principal subjects covered

General knowledge of social and natural sciences taught in French (around 15 courses per year) and music classes such as conducting, harmony, piano lessons with sol-fa, music production (audio and midi), acoustics and sound theory (around 13 courses per year)

Personal skills and competences

Mother tongue(s)
Other language(s)

Serbian
English, French, Chinese, Russian

*Self-assessment
European level^(*)*

English
French
Russian, Chinese

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
excellent	excellent	excellent	excellent	excellent
excellent	good	excellent	excellent	good
fair	fair	fair	fair	fair

^(*) Common European Framework of Reference (CEF) level

Social, organizational skills and competences

February, 2014, organizing a celebration of the Chinese new year in Belgrade, Serbia.
In April, 2013 and 2014, member of the Youth in Action program in Mardin, Turkey, making documentaries about Kurdish culture without political suggestions.
2013 - producing a film and managing a group of 10 actors for a course at the Vrije University in Amsterdam, called Interactive Multimedia, thanks to which I acquired organizational and management skills.
In 2012, in order to collect money for a shelter for kids in Belgrade, I produced, organized and edited a documentary about them, showing their talents and optimism.

Computer skills and competences

2013, group projects at Free University of Amsterdam, (i) participation in a Kaggle competition for detecting sounds of blue whales, (ii) carrying out a research proposal and statistical analysis (with an online survey) answering a question: *What Differences Exist in the Emotional Perception of a Story if it is told by either an Embodied Conversational Agent (ECA) or a Human Being, (an ECA that we created)*
2012, Image Processing group project (Sobel Image Edge Detection) using CUDA, in Belgrade University.

Programming skills

C (OS- process management; threading; CUDA; compilers - yacc and lex),
Java (Swing, JOGL, JDBC, Jfugue), Web design (CSS, Html, PHP, JavaScript),
Matlab (Numerical Analysis, Signal and Image processing and analysis, EEGlab, BioSig and Ledalab toolboxes), Python(Signal processing, MNE), Latex

Artistic skills and other competences

Clay sculpting, oil painting, drawing portraits -it has been my hobby since I was a child,
piano playing (1998 - 2010) and jazz singing, composing and music production (2005-2010)
filming and editing, since my first camera – 2002, acting, screen writing and producing films/documentaries (since 2012), with voluntary humanitarian work

Publications

- A Mjirda, B Jarboui, J Mladenović, C Wilbaut, and S Hanafi (2014) "A General Variable Neighbourhood Search for the Multy-Product Inventory Routing Problem", IMAMAN-2013-0397, published 2014, in IMA Journal of Management Mathematics;
- J. Mladenovic, J. Mattout, and F. Lotte (2017) Brain-Computer Interfaces Handbook: Technological and Theoretical Advances, Chapter 33: A generic framework for adaptive EEG-based BCI training and operation
- J. Mladenovic, J. Frey, M. Bonet-Save, J. Mattout and F. Lotte (2017) The Impact of Flow in an EEG-based Brain Computer Interface, Graz BCI Conference
- J. Mladenovic, M. Joffily, J. Frey, F. Lotte, J. Mattout (2017) Endowing The Machine With Active Inference: A generic Framework to Implement Adaptive BCI, NaT Conference
- J. Frey, C. Jeunet, J. Mladenovic, L. Pillette, F. Lotte (2017) "When HCI Meets Neurotechnologies: What You Should Know about Brain-Computer Interfaces", Course at ACM CHI
- J. Mladenovic (2017) Invited talk at the Second NeuroFeedback Day in Paris — NExT Neurofeedback and Flow in BCI training
- J. Mladenovic (2017) Poster at JJC-ICON in Bordeaux "Exploring adaptive BCI methods to favour user learning and flow state"
- F. Lotte, C. Jeunet, J. Mladenovic, B. N'Kaoua, L. Pillette (2018) IET Book 'Signal Processing and Machine Learning for Brain-Machine Interfaces', Chapter 6: A BCI challenge for the signal processing community: considering the human in the loop"
- J. Mladenović, J. Frey, E. Maby, M. Joffily, F. Lotte, J. Mattout (2018) Active Inference for Adaptive BCI: Application to the P300 Speller, International BCI meeting, May 2018, Asilomar, United States
- J. Mladenovic, J. Frey, JR. Cauchard (2018) Dishimo: Anchoring Our Breath, CHI '18 Interactivity - SIGCHI Conference on Human Factors in Computing System, Apr 2018, Montreal, Canada
- J. Mladenović, J. Frey, E. Christophe, JA Micoulaud, J Vion-Dury, G Mougín, R Kronland, S Ystad, M Aramaki (2018) Towards congruent BCI feedback, Poster at Conference JJC-ICON
- Workshop co-organizer: VR/AR in BCI, with F. Putze, T. Mullen, H. Mohammed, D. Krusienski, J. Faller, A. Vourvopoulos, oral presentation: Flow as Optimal User State for Immersion and BCI Performance, at BCI Meeting Asilomar 2018
- J.Mladenovic (2018) Invited Talk — Combining physiological sensing and User modeling for intuitive HCI at Intelligent User Interfaces: Eye Tracking and Beyond, Workshop in Haifa University, Israel
- J.Mladenovic (2018) Invited Talk — Taxonomy for Adaptive BCI: User and Task Modeling at Brain-computer communication: Towards real world applications, BCI Conference in IDC Herzlyia, Israel
- E. Christophe, J. Frey, R. Kronland, J. Micoulaud, J. Mladenovic, G. Mougín, J. Vion, S. Ystad, M. Aramaki (2018) Evaluation of a Congruent Auditory Feedback for Motor Imagery BCI, Poster at International BCI meeting, May 2018, Asilomar, United States