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Child and Adolescent Psychiatrist

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PLACE OF BIRTH Skopje, Republic of Macedonia

NATIONALITY Republic of N. Macedonia

EDUCATION

- Sept. 2015 – Sept. 2020 *Child and adolescent psychiatrist*
Training in Child and Adolescent Psychiatry, University Psychiatric Clinic,
Medical Faculty, Skopje, Macedonia

- 2008 - 2012
PhD thesis title: “*Neurophysiological correlations and endophenotypes in attention deficit hyperactivity disorder*”
Faculty of Medicine
University, „Ss. Cyril and Methodius“, Skopje
PhD studies, Department of Physiology, Medical Faculty

- 2000 - 2007
MSc thesis title: “*Neurofeedback in the assessment and treatment of attention deficit hyperactivity disorder in children*”
Faculty of Medicine
University, „Ss. Cyril and Methodius“, Skopje
MSc. studies, University Pediatric Clinic, Medical Faculty
Average grade 9.75 (out of 10)

- 1993 – 1999
Faculty of Medicine
University, „Ss. Cyril and Methodius“, Skopje
BSc. studies, MD
Average grade 9.37 (out of 10)

Current positions:

**WORKING
EXPERIENCE**

- Head of the Neurophysiology Section, Senior Researcher, July 2012 – on Sector for Neuroinformatics in function of Sustainable Development

Research Center for Energy and Sustainable Development
Macedonian Academy of Sciences and Arts (RCESD-MASA), Skopje,
Macedonia

- Prof. of Human Physiology, Psychiatry, Neurology and Medical ethics and psychology at the Faculty of Dentistry, European University, R. Macedonia, Feb. 2013 – on
- Assoc. Prof of Human Biology, Psychopathology, Child and adolescent psychopathology, Forensic Psychology at the Faculty of Psychology, IBU, Skopje, Macedonia, September, 2016 – 2018, 2023 – on
- Association “In my World” – Board Member, 2021 – on
- BrainARC Skopje – CEO and consultant, 2021 - on

Previous positions:

- Research assistant (MASA), 2007 - 2012
- Young research assistant (MASA), 2000 - 2007
- GP (doctor of general practice) – Neuromedika, 1999 - 2000

**PARTICIPATION IN
INTERNATIONAL
RESEARCH
PROJECTS**

- **CA22114 - Maternal Perinatal Stress and Adverse Outcomes in the Offspring: Maximising infants´development (TREASURE)** (EU/ESF COST, 2023-2027)
- **Action CA22111: A European consortium to determine how complex, real-world environments influence brain development (ENVIRO-DEV)** (EU/ESF COST, 2023-2027)
- **Action CA19104: Advancing Social inclusion through Technology and EmPowerment (a-STEP)** (EU/ESF COST, 2021-2025)
- **Action CA17130: Enhancing Psychiatric Genetic Counselling, Testing, and Training in Europe** (EU/ESF COST, 2018-2022)
- **IMPULSE: Implementation of an effective and cost-effective intervention for patients with psychotic disorders in low and middle income countries in South Eastern Europe** (Horizon 2020 project)
- **Action CA16210: Maximising impact of Neurodevelopmental Disorders** (EU/ESF COST, 2017-2021)
- **Action CA16102: European Network on Individualized Psychotherapy Treatment of Young People with Mental Disorders** (EU/ESF COST, 2017-2021)
- **Action TD1309: Play for Children with Disabilities (LUDI)** (EU/ESF COST, 2014-2018)

- **Action BM1309: European network for innovative uses of EMFs in biomedical applications (EMF-MED)** (EU/ESF COST, 2014-2018)
- **Action IS1302: Towards an EU research framework on forensic psychiatric care** (EU/ESF COST, 2014-2018)
- **Action TD1006: European Network on Robotics for Neurorehabilitation** (EU/ESF COST, 2011-2015)
- **Action BM1004: Enhancing the scientific study of early autism: A network to improve research, services and outcomes** (EU/ESF COST, 2010-2014)
- **Neuronal Electricity and Neurofeedback** (TÜBITAK, 2009-2011)
- **Action BM0605: Consciousness: A Transdisciplinary Integrated Approach** (EU/ESF COST, 2007-2011)
- **Action BM0601: Advanced Methods for the Estimation of Human Brain Activity and Connectivity (NEUROMATH)** (EU/ESF COST, 2007-2011)
- **Inter-sectoral Mobility of Researchers in South-Eastern Europe - I-SEEMob** (EU FP7, 2009-2011)
- **Action B27: Electric Neuronal Oscillations and Cognition (ENOC)** (EU/ESF COST, 2005-2009)
- **Development of Researchers Mobility Policy Guidelines for the Region of Western Balkans - WEB-MOB** (EU FP6, 2005-2007)
- **Chaos Synchronization and Analyses of Experimental and Clinical Data** (NATO, 2001-2003)

**PARTICIPATION IN
NATIONAL
RESEARCH
PROJECTS**

- **Subcellular brain processes** (MANU, MK, 2000-2002)
- **New concepts and methods in pediatric psychosomatics** – (Macedonian ministry for education and science, MK, 1999-2002)
- **Computer - aided Electrobiofeedback - Theory and Application**, (MANU, MK, 2001-2003)
- **Bioinformatics and Neurofeedback**, (Sarafov Donation, MK, 2001-2007)
- **Pediatric psychophysiology - theory and practice**, (Macedonian ministry for education and science, MK 2003-2006)
- **Electric Neuronal Oscillations – Theory and Application**, (MANU, MK, 2005-2007)
- **Electric neuronal oscillations and cognition** (Macedonian ministry for education and science, MK 2005-2009)
- **Electrical brain processes and cognition**, (MANU, MK, 2008-2010)
- **Electromagnetic technologies and cognitive performances**, (MANU, MK, 2009-2011)
- **Modulation of electrical brain oscillations** (MANU, MK, 2012-2014)
- **Psychophysiology of attention: comparison children vs. adults** (MANU, MK, 2013-2015)
- **EEG coherence in ADHD, depression and anxiety**(MANU and SANU Bilateral Project, 2016-2017)
- **”Neurophysiological changes in children with dyslexia”**, MAHY (2019)

TRAINING

- II Congress of Clinical Neurophysiologists in Asia and Europe, 10-11 December 2021, online
- Brain Signals-QEEG workshop, September 2021 to January, 2022
- Workshop: Interpretation Tech Report, Brain and Trauma Foundation/HBImed AG, September to December, 2021
- ADOS training workshop, Naklada Slap. Zagreb, Croatia, 13-17 July, 2021
- Online course for educators in Neurofeedback, BeeMedic, 28 June – 02 July, 2021
- Training in Functional assessment according to ICF (International Classification of Functionality), Skopje, 14-17 June, 2021

- STSM COST Action MINDSS (Endophenotypes in children with neurodevelopmental disorders) – Chur, Switzerland, 23 – 31 March, 2019
- COST action TREATME training school: Psychotherapy for Antisocial Youth in Europe, Nicosia, Cyprus, 12-16 September, 2018.
- AAF-OMI medical seminar in Behavioral pediatrics, Salzburg, Austria, 3-9 June 2018.
- Cognitive behavioural therapy in young people with mental disorders based on neuropsychophysiological evidences in the light of personalised medicine”, COST-STSM- 39166, Host: Prof. Dr Giuseppe Chiarenza, CIDAAI (International Center of learning, attention and hyperactivity disorders), Milano, IT, 19-26 February, 2018
- COST action TREATME training school: Research in mediators and moderators of psychotherapy in adolescence, Athens, Greece, 1-4 February, 2018
- Early detection and early intervention of children with disabilities in Macedonia, UNICEF MK, 16-17 December, 2017.
- EPA (European Psychiatry Association) Itinerant Course “Recognising and assessing negative symptoms in patients with schizophrenia” with Prof. Armida Mucci, 18 November, 2017, Banja Luka, Bosnia and Herzegovina
- ESCAP Research Academy, Geneva, (Switzerland) 6-8 July, 2017.
- ECNP School Child & Adolescent NeuroPsychoPharmacology, April 2-7, 2017, Venice (Italy).
- 13th International Training Seminar in Child & Adolescent Psychiatry, 12-17th March, 2017, Bertinoro (Italy).
- Training seminar for national experts on drug use disorders and associated co-morbidity, In the framework of the UNODC-WHO Joint Programme on Drug Dependence Treatment and Care, 18-19 May, 2016, Skopje.
- Prevention of psychoactive substances use at the working place, TAIEX – European Commission, Skopje, 20 - 21 June 2016.
- Publishing integrity and good practices in editing in biomedicine, Skopje, 25 April, 2014.
- BSI Spring 2013 18 April Webinar 3c: The Management of Anxiety, PTSD, Insomnia and Depression with Electrons: A Brief Primer on Cranial Electrotherapy Stimulation (CES), Dan Kirsch, PhD
- COST ESSEA Training School on Novel Methods in Developmental Research, Uppsala Child and Baby Lab, Uppsala, Sweden, 1-5 October, 2012
- Neurophysiological endophenotypes and neurofeedback treatment in children with autism spectrum disorder, COST-STSM-BM1004, Host: Prof. Filippo Muratori, Division of Child Neurology and Psychiatry, University of Pisa, Stella Maris Scientific Institute, 09-18 Sept, 2012
- Training Course in Advanced Science Communications for COST Action Chairs, COST-ECSITE, Mechelen, Belgium, 5-6 October, 2009
- “Introduction to biofeedback”, Harry Campbell, on-line training course, 1 Sept., 2009
- Joint SAN/COST B27 Training Schools on Neurofeedback and ADHD & International course and Conference MIND AND BRAIN VI:

Neuroplasticity of Brain and Behavior, April 16-21, 2009, Dubrovnik, Croatia

- Use of event related potential (ERP) components and sLORETA as diagnostic tools in ADHD, COST-STSM-B27-04519, Host: Prof. Juri D. Kropotov, Human Brain Institute of Russian Academy of Sciences, St. Peterburg, Russia, 23 Feb. – 08 March, 2009
- “Quantitative EEG (QEEG) and Event related potentials (ERP) as a precondition for a successful Neurotherapy”, Instructor: Juri D. Kropotov, PhD., Wetzikon, Switzerland, November 06-08, 2008
- Differences between ICA components during emotional and visual CPT in normal and ADHD adults, COST-STSM-B 27-04125, Host: Dr Andreas Müller, Chur, Switzerland, 02-08 November, 2008
- QEEG, ERP’s and ANT testing in ADHD, COST-STSM-B27-03262, Host: Dr Andreas Müller, Chur, Switzerland, 11-23 November, 2007
- “Course on Quantitative EEG and Neurotherapy”, Instructor: Juri D. Kropotov, PhD., at the Scientific meeting “Applied neuroscience for healthy brain function”, Nijmegen, Netherlands, May 21, 2007
- “When personality disorders are involved: The integration of body, cognition, attention and emotion in psychotherapy for anxiety and depression in simple and complicated cases” Instructor: Daniel Hamiel, Ph.D., at the 11th Annual Meeting of the Biofeedback Foundation of Europe, Berlin, Germany, February 27, 2007
- “How the mind/brain works – A model of consciousness” Instructor: Jay Gunkelman, QEEGD, at the 11th Annual Meeting of the Biofeedback Foundation of Europe, Berlin, Germany, February 28, 2007
- “Optimizing performance and health – Assessment” Instructor: Vietta Wilson, Ph.D., at the 11th Annual Meeting of the Biofeedback Foundation of Europe, Berlin, Germany, March 2, 2007
- “Optimizing performance and health – Training” Instructor: Vietta Wilson, Ph.D., at the 11th Annual Meeting of the Biofeedback Foundation of Europe, Berlin, Germany, March 3, 2007
- “Application of Different Biofeedback Modalities in Treating Psychophysiological Disorders by using BOSLAB Biofeedback interface” Instructor: Olga M. Bazanova, Ph. D, Skopje, Macedonia, October, 2006
- “QEEG and Neurofeedback”, Instructor: Juri Kropotov, PhD, Neurofeedback holiday, Greece, July, 2006
- “EEG Evaluation and Treatment of ADD/HD, and Other Disorders”, Instructors: Joel F. Lubar, PhD & Judith O. Lubar, LCSW, BCD, Amsterdam, Netherlands, March 1-2, 2002
- “RSI, What about Stress?”, Instructors: Martie Gerus, PT & Gideon de Haan, PT, Amsterdam, Netherlands, February 28, 2002
- “Basics of EEG Biofeedback”, Instructors: Ben Reitsma, PhD; Johan Fekkes, drs. & Wytze van der Zwaag, drs., Amsterdam, Netherlands, February 27, 2002

- “EEG Biofeedback for Professionals-theory and practice”, 60 hours training course, Faculty: Prof. J. Faber, MD, PhD; J. Tyl, PhD; V. Tylova, PhD, Prague, Czech Republic, September, 2001
- “Using the EEG for Assessment and Treatment 3a and 3b”, Instructor: Lynda Thompson, PhD and Michael Thompson, MD; Prien, Germany, February 18-19, 2001
- “Alpha-Theta training and its Application in Medicine, Psychotherapy and Personal Transformation with Focus on Alcohol Addiction, Instructor: Knut Bendorfer, Dr.rer.net, Prien, Germany, February 16, 2001
- “Principles and Methods for Quantitative EEG Assessment and Applications to Neurofeedback Therapy I” Instructor: M.B. Sterman, Ph. D; Wolfgang Keeser, PhD, Prien, Germany, February 15, 2001

PAPERS/ABSTRACTS

1. Pop-Jordanova N., *Markovska S.*, Zorcec T., Koceski S. (2001). **Somatoform Disorders in Children and Biofeedback Mitigation**, In the Proceedings of the 5th Annual Meeting and Workshops of the Biofeedback Foundation of Europe, Prien, Germany, February 15-19.
2. Поп-Јорданова Н., Зорчец Т., Демерџиева А., *Марковска С.* (2001). **Биофидбек у базичној и клиничкој неурофизиологији**, XVI Југословенски симпозијум о епилепсији, Белград, стр. 83-92, Одабране теме из епилептологије 2, Ноември 1-3.
3. *Markovska S.* (2001). **Neurofeedback treatment of attention deficit hyperactivity disorder**, XVI Yugoslav Epilepsy Symposium, Belgrade, Book of abstracts; p. 144, Nov 1-3.
4. *Markovska S.*, Pop-Jordanova N. (2002). **Treatment of Attention Deficit Hyperactivity Disorder using Theta-Beta Neurofeedback**, Biofeedback Foundation of Europe, 6th Annual Meeting and Workshops, Amsterdam, Netherlands, February 26-March 03.
5. Pop-Jordanova N., *Markovska S.* (2002). **EEG Biofeedback in the Treatment of Attention deficit Hyperactivity Disorder in Children**, The 9th International Child Neurology Congress, Beijing, China, September 20-25, 2002; Also *Brain and Development, Official Journal of the Japanese Society of Child Neurology*, Vol.24, No.6, p.520.
6. Демерџиева А., Поп-Јорданова Н., Зорчец Т., *Марковска С.* (2003). **Биофидбек - принципи и апликација во педијатријата**, III Педијатриски Конгрес на Македонија со интернационално учество, Зборник на абстракти и трудови, стр. 230, Септ. 9 - 13.
7. Pop-Jordanov J., *Markovska N.*, Pop-Jordanova N., Simoska S. (2004). **Occupational Entropy and Mind Indicators for Sustainable Energy Development**: *International Journal of Green Energy* Vol. 1, No. 3, pp. 327-335.
8. Pop-Jordanova N., *Markovska-Simoska S.*, Kocubovski M. (2004) **Neurofeedback and peripheral**

9. **biofeedback study of children exposed to lead emissions**, E-ISBNR 2-nd Annual Meeting Abstracts, Winterthur, Switzerland, 24-28 February.
10. Pop-Jordanova N., *Markovska-Simoska S.*, Zorcec T. (2005). **Neurofeedback treatment of children with attention deficit hyperactivity disorder**, *Prilozi, Sec. Biol. Med. Sci., MASA*, XXVI, I, p.71-80.
11. *Марковска С.*, Кочубовски М., Поп-Јорданова Н. (2005). **Психофизиолошка проценка на група деца изложени на емисија на олово во Велес**, *Проблеми на хигиената*, том XXVI, број 1, стр. 26-29.
12. Pop-Jordanova N., Markovska-Simoska S., Zorcec T., Demerdzieva A., Krsteva I., (2005). **Comparison of clinical results of EDR and EEG biofeedback for childhood and adolescent disorders**. Society of Applied Neuroscience – Proceedings of the Scientific Programme, 31st August – 2nd September, Istanbul, Turkey.
13. Pop-Jordanova N., Bazanova O., Georgiev D., Kondratenko A., Kondratenko O., *Markovska-Simoska S.*, Mernaya J. (2006). **Simultaneous EEG and EMG biofeedback for peak performance in musicians**. Proceedings of Inaugural meeting of the SAN in association with the EU cooperation in science and technology (COST) B27, Swansea University, Wales, UK, p.23.
14. *Markovska-Simoska S.*, Pop-Jordanova N., (2007) “**Neurofeedback in the diagnosis and treatment of ADHD children**”, Proceedings of the 11th International Biofeedback Conference in *Applied Psychophysiol. Biofeedback*, 32: 214-215, Berlin, Germany, Feb.27-March 3.
15. Pop-Jordanova N., Georgiev D., Zorcec T., *Markovska-Simoska S.*, (2007), **The effects of PAT, HRV and EDR biofeedback training on cognitive performance in children**. In proceedings of the Neuroscience today: neuronal functional diversity and collective behaviors, Florence, 26-28 March, p. 20.
16. Pop-Jordanova N., Muller A., Zorcec T., *Markovska-Simoska S.*, (2007). **Q-EEG subtypes of Macedonian ADHD children**, Oral and poster presentation at the scientific meeting “Applied neuroscience for healthy brain function”, Nijmegen, Netherlands, May 17-20, Book of abstracts, p.60.
17. Fetaji, B., Pop-Jordanova, N., Zorcec, T. & *Markovska, S.* (2007). **Measuring E-learning Effectiveness Through Testing E-content and Attention Correlation**. In G. Richards (Ed.), Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education (pp. 293-298). Chesapeake, VA: AACE.
18. *Markovska-Simoska S.*, Zorcec T., Kocubovski M., Pop-Jordanova N. (2007). **Influence of lead on some specific neuro-psychophysiological parameters in children from Veles**, In the proceedings of the IVth Congress of the Macedonian Pediatric Association with International Participation, p. 107, Ohrid, 18-22 September.

19. Demerdzieva A., Pop-Jordanova N., Markovska-Simoska S., Bazanova O., (2007). **Effects of individual alpha enhancement and EMG decreasing protocol in treatment of patient with tics, hyperactivity and lack of concentration (Case report)**. Electric brain oscillations along a life-span. ENOC-COST B27, MC and WG meetings, Goettingen, 11-14 October, Book of abstracts, p. 7.
20. Markovska-Simoska S. (2007). **Biofidbek metodologii vo Makedonija – nau~ni i klini-ki postigawa**. Zbornik na trudovi od Prvata makedonska konferencija za medicinska fizika i biomedicinski in`enering, 23-24 noemvri, Skopje, str. 110-115.
21. Markovska-Simoska S., Pop-Jordanova N., Pop-Jordanov J. (2007). **New perspectives of brain-rate parameter**. Proceedings of the NeuroMarh Workshop and WG Meeting, Rome, December 2-5, 2007, p.91-92.
22. Demerdzieva A., Pop-Jordanova N., Markovska-Simoska S. (2007). **Treatment of stuttering in childhood**. *Epilepsy* (The Journal of the Ligue Against Epilepsy of Republic of Macedonia), June, 69-77.
23. Markovska-Simoska S., Pop-Jordanova N., Georgiev D. (2008). **Simoultaneous EEG and EMG Biofeedback for Peak performance in Musicians**, *Prilozi, Sec. Biol. Med. Sci., MASA*, XXIX, 1, p. 239-252.
24. Gjoneska B., Pop-Jordanova N., Markovska-Simoska S.(2008). **Neuroinformatics: Application of QEEG in Pediatric Research and Practice**. In proceedings of the 6th International Conference for Informatics and Information Technologies, Bitola, 10th -14th February, p. 51-53.
25. **Electric Neuronal Oscillations and Cognition - Progress Report**, J. Pop-Jordanov/Presented by S. Markovska–Simoska, EU/ESF COST, DC/BMBS Meeting, Berlin, 3-8 March, 2008.
26. Марковска-Симоска С., (2008). **Периферен и централен биофидбек - принципи и клинички постигања**, *Physioacta*, Vol.2, 1, p. 89-100.
27. Markovska-Simoska S., Gjoneska B., Tomovski I., Pop-Jordanov J. (2008). **Analysis of QEEG spectrum-weighted frequency (Brain-rate) for visual and emotional CPT**, Proceedings of the 2nd meeting for Society for Applied Neuroscience (SAN) in collaboration with COST B27 Electric Neuronal Oscillations and Cognition, in *Revista Espanola de Neuropsicologia*, Volumen 10:1, Seville, 7th – 11th May, p. 129.
28. Markovska-Simoska S., Meier N. (2008). **ERP's components of emotional CPT and visual CPT in ADHD adults and controls**, Proceedings of the 2nd meeting for Society for Applied Neuroscience (SAN) in collaboration with COST B27 Electric Neuronal Oscillations and Cognition, in *Revista Espanola de Neuropsicologia*, Volumen 10:1, Seville, 7th – 11th May, p. 51.

29. Markovska-Simoska S. (2008). **Neuro-COST Actions related to fMRI with Macedonian Participation**, Proceedings of the First International Seminar for Magnetic Resonance Imaging in the Republic of Macedonia, Ohrid, 27-30 August, p. 29.
30. Markovska-Simoska S., Meier N. (2008). **The study of attention in adults using event related EEG components**, Proceedings of the 1st Conference and Joint Working Group Meeting of EU/ESF COST Action BM0605: Consciousness: A Transdisciplinary, Integrated Approach, Gent, 20-21 November, p. 21.
31. Markovska-Simoska S., Pop-Jordanova N. (2009). **Comparison of visual and emotional continuous performance tests performances related to sequence of presentation, gender and age**. *Prilozi, Sec. Biol. Med. Sci., MASA*, XXX, 1, p.167-178. PMID: 19736539
32. Gjoneska B., Markovska-Simoska S., Zorcec T. (2009). **Some Specific QEEG Applications Related to Neurocognitive Dysfunctions**. In Proceedings from Advanced workshop ‘Consciousness and Its Descriptors’ in the framework of COST B27, 28-29 March, 2009, Crotone, p. 23.
33. Markovska-Simoska S., Pop-Jordanova N., Demerdzieva A. (2009). **Comparison of visual and emotional continuous performance tests performances related to sequence of presentation, gender and age**, In Proceedings from Joint SAN/COST B27 Training Schools on Neurofeedback and ADHD & International course and conference MIND AND BRAIN VI: Neuroplasticity of Brain and Behavior, April 16-21, 2009, Dubrovnik, Croatia, p.23.
34. Demerdzieva A., Pop-Jordanova N., Markovska-Simoska S. (2009). **QEEG assessment in anorectic patients**, In Proceedings from Joint SAN/COST B27 Training Schools on Neurofeedback and ADHD & International course and conference MIND AND BRAIN VI: Neuroplasticity of Brain and Behavior, April 16-21, 2009, Dubrovnik, Croatia, p.21.
35. Markovska-Simoska S., Pop-Jordanova N., Gjoneska B., Demerdzieva A. (2009). **Behavioral parameters for ADHD and normal adults during face recognition and identification of facial emotions**, Proceedings of Final ENOC Meeting “Electrical brain oscillations – linking basic and clinical research”, Zürich, 15-16 May, p. 9.
36. **Consciousness - Progress Report**, A. Cleermans/ Presented by S. Markovska-Simoska, “Electrical brain oscillations – linking basic and clinical research”, Zürich, 15-16 May.
37. Markovska-Simoska S., Frcovski S., Atanasovski M. (2009). **Evaluation of efficacy of biofeedback, neurofeedback and QEEG assessment in polygraph testing**, In proceedings of the ESF-COST High-Level Research Conference: Law and Neuroscience, 26-31 October, Acquafredda di Maratea, Italy.

38. Markovska-Simoska S., Pop-Jordanova N., Pop-Jordanov J. (2009). **Brain rate parameter as a measure of the level of consciousness in ADHD adults**, In proceedings of the co-joint meeting of COST Actions BM0605 & BM0601: Consciousness and its measures, Limassol, Cyprus, 29 Nov. – 01 Dec., p. 82-83.
39. Gjoneska B., Markovska-Simoska S., Kandikjan A. (2010). **Assessment of the brain rate parameter in three protocol dependant groups of epileptic patients**, In proceedings of the Workshop of the NeuroMath COST Action BM0601: "Neurodynamic insight into functional connectivity, cognition and consciousness", Dubrovnik, Croatia, 27 – 28 March, also in *Front. Neurosci.* doi: 10.3389/conf.fnins.2010.05.00021.
40. Марковска-Симоска С. (2010). **Уметничка креативност и неврофидбек модификации на мозочната активност.** *Physioacta*, Vol.4 (1), p.157-165.
41. Markovska-Simoska S., Pop-Jordanova N. (2010). **Face and emotion recognition by ADHD and normal adults**, *Acta Neuropsychologica*, Vol. 8, No. 2, 99-122. ICID: 932769
42. Markovska-Simoska S., Pop-Jordanova N. (2010). **Quantitative EEG Characteristics of Attention Deficit Hyperactivity Disorder in Adults**, *Macedonian Journal of Medical Sciences*, Dec 15; 3(4):368-377. doi: 10.3889/MJMS, 1857-5773.2010.0124.
43. Markovska-Simoska S., Pop-Jordanova N. (2011). **Quantitative EEG spectrum-weighted frequency (brain rate) distribution in adults with attention deficit hyperactivity disorder**, *CNS Spectrums*, 16:5, 579-583. PMID: 21543016
44. Mancevska S., Markovska-Simoska S., Nikolic S., Pluncevic-Gligoroska J., Pop-Jordanova N. (2011). **Neuropsychological performance in basket-ball players**, Proceedings of Society of Applied Neuroscience Meeting, 6-8 May, Thessaloniki, Greece, p.99.
45. Tenev A., Markovska-Simoska S., Kocarev L., Pop-Jordanov J. (2011). **Application of machine learning techniques for classification of ADHD and Control adults**, Proceedings of Society of Applied Neuroscience Meeting, 6-8 May, Thessaloniki, Greece, p.73.
46. Ermutlu N., Eskikurt G., Markovska Simoska S., Pop Jordanova N., Isoglu Alkac Ü., Karamürsel S. (2011). **EEG power spectra in Mental, Cold and Combined Stresses**, Turkish - FEPS Physiology Congress, Istanbul, 3-7 September, *Acta Physiologica 2011*; Volume 203, Supplement 686 :PC160
47. Markovska-Simoska S. (2011). **Neuropsychological and neurophysiological aspects of ADHD**, In the proceedings of the Vth Congress of the Macedonian Pediatric Association with International Participation, p.394-395, Ohrid, 05-09 October.

48. Markovska-Simoska S., Pop-Jordanova N., (2012). **QEEG subtypization and QEEG spectrum weighted frequency in adults with attention deficit hyperactivity disorder**, Book of abstracts at the 5th Congress of the Neurologists with International participation, Ohrid, p.55, 14-16 June.
49. Markovska-Simoska S., Markovska N., Pop-Jordanova N. (2012). **Organizational attention deficit as sustainability indicator: assessment and management**, Book of abstract of the 7th Conference on Sustainable development of energy, water and environment systems, July 1 - 7, Ohrid, Republic of Macedonia, p. 255-256, SDWS2012.0594
50. Markovska-Simoska S., Pop-Jordanova N., Müller A., Candrian G. (2012). **Comparison of ERP independent components between four QEEG subtypes in a group of ADHD adults**, Proceedings of the XVI World Congress of Psychophysiology, Sept. 13-17, Pisa, Italy in *International Journal of Psychophysiology*, 85, p. 422, doi:[10.1016/j.ijpsycho.2012.07.151](https://doi.org/10.1016/j.ijpsycho.2012.07.151)
51. Markovska-Simoska S. (2012). **Neuropsychological and neurophysiological endophenotypes of attention deficit hyperactivity disorder**, Conference on Novel Methods in Developmental Research, Uppsala Child and Baby Lab, 1-2 October, Uppsala, Sweden.
52. Tenev A., Markovska-Simoska S., Kocarev L., Pop-Jordanov J. (2013). **Machine learning approach for classification of ADHD adults**, *International Journal of Psychophysiology* DOI information: [10.1016/j.ijpsycho.2013.01.008](https://doi.org/10.1016/j.ijpsycho.2013.01.008).
53. Koceski S., Markovska-Simoska S., Pop-Jordanova N. (2013) **Using the Brain-Rate as a Preliminary Indicator of General Mental Activation in Cognitive Neurorehabilitation of TBI Patients**, *Converging Clinical and Engineering Research on Neurorehabilitation Biosystems & Biorobotics* Volume 1, 2013, pp 659-663.
54. Pop-Jordanova N., Markovska-Simoska S., Filev G., Pop-Jordanov J. (2013). **The need for regular screening of postpartum depression**, *Prilozi, Sec. Biol. Med. Sci., MASA* (in print).
55. Pop-Jordanova N., Markovska-Simoska S., Isoglu-Alkac U., Karamursel S., Ermutlu N., Eskikurt G. (2013). **Multicentre spectral EEG analysis in ADHD subgroups**, *International Journal of Neuroscience* (submitted).
56. Pop-Jordanova N., Radojkova-Nikolovska V., Markovska-Simoska S. (2013). **Perceived stress in dental praxis**, *Prilozi, Sec. Biol. Med. Sci., MASA* (submitted).
57. Markovska-Simoska S., Pop-Jordanova N. (2013). **EEG power spectra and ERPs characteristics in female with ADHD**, Vth Macedonian Psychiatric Congress and International Meeting, 22-26 May, Ohrid, Macedonia.

58. Pop-Jordanova N., Markovska-Simoska S., (2013). **Postpartum depression in Macedonian women**, Vth Macedonian Psychiatric Congress and International Meeting, 22-26 May, Ohrid, Macedonia.
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62. Kamberi G., Markovska-Simoska S., Kamberi B., **Neuroeconomics of unsustainable food consumption behavior**, Conference paper, SEE SDEWES Ohrid 2014, 29 June - 3 July, 2014, Ohrid, Macedonia.
63. Markovska-Simoska S., Pop-Jordanova N., **Correlation between some personal characteristics with QEEG (case report)**, *Medicus* 2014, Vol. 19 (3): 543 -547.
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67. Markovska-Simoska S., Pop-Jordanova N., **Differences in EEG relative power spectra between children and adults with ADHD**, I Macedonian Conference on Child and Adolescent Psychiatry with International Participation “Developmental Psychopathology: Challenges and Opportunities”, 16-18 October, 2014, Ohrid, Macedonia.
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Psychopathology: Challenges and Opportunities”, 16-18 October, 2014, Ohrid, Macedonia.

69. Markovska-Simoska S., Pop-Jordanova N. **Neuropsychological profile of ADHD adults using ANT testing**, International conference on theory and practice in psychology, 30 October – 1 November, 2014, Skopje, Macedonia.
70. Markovska-Simoska S., Pop-Jordanova N. Bajraktarov S., **Our Experiences with the Use of Cranial Electrical Stimulation and Repetitive Transcranial Magnetic Stimulation as Add-On Treatment**, COST EMF-MED, Workshop on EMF interactions with excitable tissues, March, 2015, Madrid, Spain.
71. Markovska-Simoska S., Pop-Jordanova N., **Quantitative EEG in children and adults with attention deficit hyperactivity disorder: comparison of absolute and relative power spectra and theta/beta ratio**, *Clinical EEG and Neuroscience* (under revision).
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74. Markovska-Simoska S., Frcovski S., Atanasovski M., **Forensic psychophysiology: evaluation of physiological parameters during polygraph examinations**, Book of abstracts, Symposium "Current Application of Psychophysiological Methods", 15 May, Skopje, Macedonia.
75. Н. Манушева, С. Арсова, С. Марковска, Н. Поп-Јорданова, С. Бајрактаров, Е. Мицева-Величкоска - **Психофизиолошки промени кај анксиозни состојби**, Меѓународна психијатриска конференција „Стрес и анксиозни растројства низ различни животни фази“, 29-31 октомври, 2015, Охрид, Македонија.
76. С. Марковска-Симоска, Н. Поп-Јорданова, Н. Манушева, М. Ралева - **Биофидбек за проценка и третман на стрес**, Меѓународна психијатриска конференција „Стрес и анксиозни растројства низ различни животни фази“29-31 октомври, 2015, Охрид, Македонија.
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84. Markovska-Simoska, S., Kitkanj Z., Raleva M., Pop-Jordanova N., Filipovska A., Manusheva N. **EEG characteristics of juvenile offenders**, WPA co-sponsored International Conference on Forensic Psychiatry “*Forensic Psychiatry and Prison Psychiatry between Medicine and Law*”, 13-15 October, (2016) Ohrid, Macedonia.
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100. Markovska-Simoska S., Raleva M., Filipovska A., Kitkanj Z. (2017). “**Neurophysiological correlates of executive functions in juvenile offenders and ADHD adolescents**” 17th International ESCAP Congress, 6-11 July, Geneva, Switzerland (poster n. 3401)
101. Raleva M., Markovska-Simoska S. Filipovska A.(2017). “**Neurodevelopmental Perspective of Antisocial Behaviour, Conduct Disorder, Delinquency, and Violence in Juvenile Offenders**”, 17th International ESCAP Congress, 6-11 July, Geneva, Switzerland (poster n. 3120)
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106. Markovska-Simoska S., Pop-Jordanova N. (2018). **Quantitative EEG and ERPs in children and adults with Attention Deficit Hyperactivity Disorder**, Proceedings of 19th World Congress of Psychophysiology, Lucca, Italy, 04-08 September p.59-60 (also in *International Journal of Psychophysiology*)
107. Raleva M., Markovska-Simoska S. (2018). **Psycho-social and Psychophysiological Characteristics of Juvenile Offenders**, Proceedings of 19th World Congress of Psychophysiology, Lucca, Italy, 04-08 September p.60 (also in *International Journal of Psychophysiology*)
108. Markovska-Simoska S., Pop-Jordanova N. (2018). **Neurofeedback treatment as a type of psychotherapy in ADHD children**, First International Congress of Child and Adolescent Psychotherapy, Sarajevo, Bosnia and Herzegovina, 18-21 October
109. Pop-Jordanova N., Markovska-Simoska S. (2018). **Heart Rate Variability in the assessment and training of common mental problems in young population**, First International Congress of Child and Adolescent Psychotherapy, Sarajevo, Bosnia and Herzegovina, 18-21 October
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116. Prevender T., ... Markovska-Simoska S. **Evidence-based psychotherapeutic interventions for youth mental disorders.** Book of abstracts p.103 - Society for Psychotherapy research (SPR), 50th Annual International meeting, Buenos Aires, Argentina, July 2-6, 2019 (oral presentation)
117. Silvana Markovska-Simoska, Nensi Manuseva, Nada Pop-Jordanova. **EEG and ERPs biomarkers in dementia research: current state and future perspectives,** Book of abstracts, p. 49, WPA Thematic Congress: Dementia: psychiatric and neurological challenges and perspectives, 15-18 May, 2019 (poster presentation)
118. Silvana Markovska-Simoska, **Functional neuromarkers for the assessment and treatment of ADHD in children and adults,** International Scientific Conference – Psychology for all, Ohrid, 26-28 September, 2019 (oral presentation)
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121. Tomlin, J., Lega, I., Braun, P. ...Markovska-Simoska S., .. et al. **Forensic mental health in Europe: some key figures.** *Soc Psychiatry Psychiatr Epidemiol* (2020). <https://doi.org/10.1007/s00127-020-01909-6>
122. Eleni Vousoura, Vera Gergov, Bogdan Tudor Tulbure... Silvana Markovska-Simoska... et al. **Predictors and moderators of outcome of psychotherapeutic interventions for mental disorders in young people: Protocol for systematic reviews,** *Systematic Reviews*, 21 September 2020, preprint (Version 1) available at Research Square [+<https://doi.org/10.21203/rs.3.rs-79493/v1>]
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for young people with substance use disorders: a systematic literature review, EPA Virtual Congress Madrid, 4-7 July, 2020

124. R. Sacco, N. S. Markovska-Simoska and A. Cosmoiu; **Evidence-based psychotherapeutic interventions for young people with substance use disorders: a systematic literature review**, EPP0024- book of abstract S52-S53, EPA Virtual Congress Madrid, 4-7 July, 2020
125. N. Camilleri, A. Saliba, E. Vousoura, T. Prevender, H. Löffler-Stastka, E. Saliba, D. Vella Fondcaro, R. Sacco, S. Markovska-Simoska, Hochgerner, B. Tudor Tulbure, L.-J. Garcia-Lopez, R. Ulberg, S. Poulsen and V. Gergov. **Evidence- based psychotherapeutic interventions for young people with mental disorders: a systematic review**, EPP0960 - book of abstract S220, EPA Virtual Congress Madrid, 4-7 July, 2020
126. D. Vella Fondacaro, E. Vousoura, S. Poulsen, S. Torres, A. Cosmoiu, N. Camilleri, A. Saliba, R. Sacco, E. Saliba, R. Ulberg, V. Gergov, B. Tudor Tulbure, H. Löffler-Stastka, T. Prevendar, S. Markovska-Simoska, G. Chiarenza and L.-J. Garcia-Lopez. **Evidence-based psychotherapeutic interventions for young people with mood disorders: a systematic review**, EPV0445 - book of abstract S369, EPA Virtual Congress Madrid, 4-7 July, 2020
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129. S. Markovska-Simoska, Liljana Ignjatova , Gordana Kiteva-Trenchevska, Nada Pop-Jordanova. **The neurophysiological correlates of cognitive functions during methadone and buprenorphine maintance treatment: the ERPs study** *Journal of Heroin Addiction and related clinical problems* - HARCP), Published Ahead of Print, February 18, 2021
130. Stoilkovska, Biljana B., Stojan Bajraktarov, Silvana M. Simoska, Miloš Milutinović, Ljubiša Novotni, Slavica Arsova, Gabriela Novotni, et al. 2021. **“Psychometric characteristics of the Macedonian version of clinical assessment interview for negative symptoms (CAINS).”** *Psychiatria*

131. Vousoura, E., Gergov, V., Tulbure, B.T., Markovska-Simoska S. et al. **Predictors and moderators of outcome of psychotherapeutic interventions for mental disorders in adolescents and young adults: protocol for systematic reviews.** *Syst Rev* 10, 239 (2021). <https://doi.org/10.1186/s13643-021-01788-1>
132. Daniela Janeva, Silvana Markovska-Simoska and Branislav Gerazov, Title: **A system for automatic detection of major depressive disorder based on brain activity**, ETAI, 23-24 September, 2021
133. Biljana Blazhevaska Stoilkovska, Stojan Bajraktarov, Ljubisha Novotni, Silvana Markovska Simoska, Milosh Milutinovic, Elizabet Miceva Velichkovska, Gabriela Novotni, Nikolina Jovanovic **Psychopathology in psychotic disorders: Congruency between self-reported and observed measures highest for affective symptoms and lowest for negative symptoms**, *PsychJournal*, First published Feb.2022
134. Maric Nadja P., Andric Petrovic Sanja, Russo Manuela, Jerotic Stefan, Ristic Ivan, Savić Bojana, Pemovska Tamara, Milutinovic Milos, Ribic Emina, Markovska-Simoska Silvana, Dzubur Kulenovic Alma, Jovanovic Nikolina **Maintenance Therapy of Psychosis Spectrum Disorders in a Real-World Setting: Antipsychotics Prescription Patterns and Long-Term Benzodiazepine Use**, *Frontiers in Psychiatry*, Vol. 13, 2022
135. Ljubisha Novotni, Silvana Markovska-Simoska, Biljana Blazhevaska-Stoilkovska, Milos Milutinovic, Stojan Bajraktarov, Antoni Novotni, Nikolina Jovanovic, Mome Spasovski, **Understanding the health context for implementation of a new digital psychosocial intervention for improvement of the mental health in North Macedonia**, Vol. 14 No. 1 (2022): *Archives of Public Health*
136. Silvana Markovska Simoska – Comorbidity of ASD and ADHD: neurobiological reality towards a more accurate diagnosis and effective treatment - Symposium Neurodevelopmental disorders and comorbid conditions, May 5-6, 2022, Skopje, Macedonia
137. Silvana Markovska-Simoska - "Quantitative EEG comparative analysis between ASD and ADHD", the International Conference "The situation with neurodevelopmental disorders in Macedonia: The need to introduce standards in diagnostics and treatment" held at MANU from September 21-23, 2022, Skopje, Macedonia
138. Meri Naumceska, Sarah C. Bauer, Valeria Nanclares-Nogués, *Silvana Markovska-Simoska*, **Implementation of the ECHO Autism Model in**

North Macedonia - Understanding Professional Development Needs and Barriers for Education in the Classroom and Beyond, INSAR, May 2023, Stockholm, Sweden

139. Liljendal, Augusta Bennedbæk, Mikkelsen Rasmus, Klüver Lars, *Silvana Markovska-Simoska*, et al., **EBRAINS CoCreate: Epidemiology and Non-Invasive Biomarkers to Improve the Understanding of Brain-related Disorders Research and innovation roadmaps with long-term ambitions and visions. Facilitated by EBRAINS Community Building Team**, Technical Report, Human Brain Project - Research and innovation roadmaps with long-term ambitions and visions, September 2023

**INVITED
LECTURES**

- “Attention deficit hyperactivity disorder – diagnosis and treatment”, Psychiatry Clinic, Psychiatry Residency Lectures, Skopje, 21 May, 2012.
- “Applied neuropsychological and neurophysiological methods”, lectures for students at the Institute of Defectology, Skopje, 13 Nov., 2012.
- “Brain fingerprinting”, Police Academy, Skopje, 22 October, 2014.
- “Stress at the workplace”, Primal CPD, Porto Karas, Greece, May, 2015.
- “Functional neuromarkers of psychiatric disorders: current state and future prospects”, 17 November, 2017, IV Congress of Psychiatry of Bosnia and Herzegovina, Banja Luka
- COST Academy Leadership workshop webinar 15 June, 2020
- Virtual International Seminar IEEE Computational Intelligence Society: Cognitive Computing and ADHD, June 26, 2020
- COST Academy Leadership workshop webinar 3rd September, 2021
- Webinar ECHO Autism North Macedonia, December, 2021

REVIEWER

- *Reviewer of monograph “Psychotic disorders in Montenegro: Findings from the IMPULSE study” 2021*
- *Frontiers in Psychology section Psychology for Clinical Settings*
- *Frontiers in Psychiatry section Child and adolescent psychiatry*
- *Frontiers in Psychiatry*
- *European Psychiatry*
- *European Child & Adolescent Psychiatry*
- *International Journal of Psychophysiology*
- *Clinical EEG and Neuroscience*
- *Neuroscience Letters*

- *Psychiatry Research*
- *Psychology and Neuroscience*
- *Stress and health*
- *Annals of Brazilian Academy of Sciences*
- *Biological psychiatry: Cognitive Neuroscience and Imaging*

MEMBERSHIPS

- Founder and member of the *Macedonian Society of Psychophysiology (MSP)*, affiliated to IOP.
- *European network ADHD adults*
- *International Organization of Psychophysiology (IOP)*
- Member of the *Society of Applied Neuroscience (SAN)*
- *IACAPAP Individual Member*
- *Macedonian Association of Medical Editors (MAME) (ex Treasurer)*
- *Macedonian Psychotherapy Association*
- *Macedonian Association for Family Psychotherapy and Systemic Practice*
- Member of *International Society for Magnetic Resonance in Medicine (ISMRM)*

POSITIONS

Management Committee Member of EU/ESF COST Actions:

- Action CA16210: Maximising impact of Neurodevelopmental Disorders (EU/ESF COST, 2017-2021)
- Action CA16102: European Network on Individualized Psychotherapy Treatment of Young People with Mental Disorders (EU/ESF COST, 2017-2021)
- ISCH1302 “Towards an EU research framework on forensic psychiatric care”
- Action BM1309: European network for innovative uses of EMFs in biomedical applications (EMF-MED)
- BM0605 “Consciousness: A Transdisciplinary, Integrated Approach”
- Action BM1004 “Enhancing the scientific study of early autism: A network to improve research, services and outcomes”
- Action TD1006:” European Network on Robotics for Neurorehabilitation”

MC substitute

- Action CA17130 Enhancing Psychiatric Genetic Counselling, Testing, and Training in Europe
- Action TD1309: Play for Children with Disabilities (LUDI)

Working Group member of EU/ESF COST Actions:

- B27 “Electric Neuronal Oscillations and Cognition”
- BM0601 “Advanced methods for the Estimation of Human Brain Activity and Connectivity (NEUROMATH)”

Program director of ADHD Training School modules, Joint SAN/COST B27 Training Schools on Neurofeedback and ADHD & International course and conference MIND AND BRAIN VI: Neuroplasticity of Brain and Behavior, April 16-21, 2009, Dubrovnik, Croatia

Practitioner subcommittee of the Meeting of Society of Applied Neuroscience, 5-8 May, 2011, Thessaloniki, Greece

Scientific committee member

- President of Organizational and scientific board of International Conference “Situation with Neurodevelopmental Disorders in Macedonia: Need for standards in diagnostics and treatment” , 21-23 September, 2022
- Society of Applied Neuroscience (SAN) 2022, 15-17 Sept., 2022, Scientific Programme Committee member, Thessaloniki, Greece
- IOP 2021 scientific advisory board Virtual meeting , 07-11 September 2021, <http://www.iop2021.com/index.html?moduleKey=g>
- The 19th World Congress of Psychophysiology (IOP2018), August 04 - 08 September, 2018, Lucca, Italy (<https://iopworld.wildapricot.org/iop18-committees>)
- The 18th World Congress of Psychophysiology (IOP2016), August 31 - September 04, 2016, Habana, Cuba (<http://iop2016.cneuro.cu/general-information/scientific-program-committee>)
- The 17th World Congress of Psychophysiology (IOP2014), September 23-27, 2014, Hiroshima, Japan (<http://www.iop2014.jp/index.php?Scientific%20Program%20Committee>)
- I Macedonian Conference on Child and Adolescent Psychiatry with International Participation “Developmental Psychopathology: Challenges and Opportunities”, 16-18 October, 2014, Ohrid, Macedonia Macedonia
- 1st South East European Conference on Sustainable Development of Energy, Water and Environment Systems, Ohrid, June, 2014

Member of Local Organizing Committee,

- WPA Co-Sponsored International Conference: “Forensic Psychiatry and Prison Psychiatry between Medicine and Law”, 13-15 October 2016, Ohrid, Macedonia (<http://www.pzma.com/forensic-psychiatry-2016/>)

- 7th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), 1-7 July, 2012, Ohrid, R.
- Environment Systems - SEE SDEWES Ohrid 2014, 29 June - 3 July, 2014, Ohrid, Macedonia
(<http://www.ohrid2014.sdewes.org/committees.php>)
- **Member of Congress Secretariat** at the 5th Uro-oncology Winter Congress, 30 January-03 February, 2013, Skopje, Macedonia

LANGUAGES

- *English*, excellent in speaking and writing
- *Serbo-Croatian*, excellent in speaking and writing

COMPUTERS AND EQUIPMENT KNOWLEDGE

- special skills: Biograph Pro-Comp and ProComp Infiniti, Ltd. Canada Biofeedback Interface; Win EEG, Mitsar Ltd. Quantitative Electroencephalography; BOSLAB Multimodal Biofeedback Interface; Peak Achievement trainer, USA; Brain Inquiry, Netherlands, Freeze Framer; Inner Tuner Expert System

INTERVIEWS

- Гостин во емисијата на ТВ 24 часа “Фактор Здравје”, 13.06.2023, Фактор здравје - Биофидбек - принципи и апликација, link: <https://24.mk/details/faktor-zdravje-biofidbek-principi-i-aplikacija>
- Интервју за ЦИВИЛ: мај, 2023 - Насилството води кон насилство, за жал воопшто не се води грижа за менталното здравје на младите
- Гостин во емисијата на ТВ 24 часа “Фактор Здравје”, 10.03.2021, link: <https://www.youtube.com/watch?v=j5VpCXUitzQ&t=11s>
- Интервју за списанието “Ментално здравје” број 1, Асоцијација Мисла link: <https://www.facebook.com/asocijajamisla/>
- 8 on Macedonian National TV
- 2 on Sitel TV
- 1 on alfa TV
- 3 on Macedonian National radio
- 4 in daily newspapers
- 1 in weekly magazine “Globus”
- 1 in web magazine “Vработuvanje News”

SOCIAL SKILLS AND COMPETENCIES

- creativity
- good communication skills
- prefer team work, but also respect for the part done by each member
- responsible, hardworking, ambitious

PRIZES

- Laureate of Vita Pop-Jordanova Prize “The young scientist of the 2010 year”.

OTHER ACTIVITIES

- Member of Examination committee at the State’s High School competition, May, 2014
- 2-year training in family psychotherapy counseling, Institute of Family Psychotherapy and Systemic Practice, Skopje Macedonia
- Ombudsman North Macedonia - external consultant
- ICF North Macedonia - external consultant