

Contact Information	<p>Researcher, Assistant Professor  <a href="#">Life Sciences Center</a>  <a href="#">Vilnius University</a>  Saulėtekio ave. 7, LT-10257 Vilnius, Lithuania</p>	<p>E-mail: <a href="mailto:avoicikas@gmail.com">avoicikas@gmail.com</a>  WWW: <a href="http://avoicikas.github.io">avoicikas.github.io</a></p>
Research Interests	Brain-computer interface (BCI), biosignals processing and analysis, neurofeedback, electroencephalography (EEG), steady state response (ASSR, VSSR, SSSR), event-related potentials (ERP), experiment setup and optimization.	
Education	<p>PhD studies, VU, <a href="#">Life Sciences Center</a>, 2019</p> <ul style="list-style-type: none"> <li>• Biophysics</li> <li>• Thesis topic: Investigation of the Dependence of Brain Auditory Steady-State Responses on Stimulation Type</li> <li>• Supervisor: dr. Inga Griškova-Bulanova</li> </ul> <p>Master studies, VU, <a href="#">Faculty of Natural Sciences</a>, 2013</p> <ul style="list-style-type: none"> <li>• Biophysics</li> <li>• Thesis topic: EEG Phase Coherence During Presentation of Emotional Stimuli</li> <li>• Supervisor: Prof. dr. Osvaldas Rukšėnas</li> </ul> <p>Bachelor studies, VU, <a href="#">Faculty of Physics</a>, 2008</p> <ul style="list-style-type: none"> <li>• Computing Physics</li> <li>• Thesis topic: Statistical Simulations: Sinai's Billiard and Resistor Networks</li> <li>• Supervisor: Prof. dr. Egidijus Anisimovas</li> </ul> <p>Secondary education, Žemynos gymnasium, 2004</p>	
Publications	<ul style="list-style-type: none"> <li>• Griskova-Bulanova I, Voicikas A, Dapsys K, Melynyte S, Andruskevicius S, Pipinis E (2021) Envelope Following Response to 440 Hz Carrier Chirp-Modulated Tones Show Clinically Relevant Changes in Schizophrenia. <i>Brain Sciences</i> 22</li> <li>• Binder M, Gorska U, Pipinis E, Voicikas A, Griskova-Bulanova I (2020) Auditory steady-state response to chirp-modulated tones: A pilot study in patients with disorders of consciousness. <i>NeuroImage: Clinical</i> 102261</li> <li>• Griskova-Bulanova I, Voicikas A, Pipinis E, Parciauskaite V, Potapovas M, Jurkuvenas V (2019) Auditory steady-state responses and the complex information processing. <i>IBRO Reports</i> 6-S191</li> <li>• Parciauskaite V, Voicikas A, Jurkuvenas V, Tarailis P, Kraulaidis M, Pipinis E, Griskova-Bulanova I (2019) 40-Hz auditory steady-state responses and the complex information processing: An exploratory study in healthy young males. <i>Plos one</i> 10-14</li> <li>• Pipinis E, Voicikas A, Griskova-Bulanova I (2018) Low and high gamma auditory steady-states in response to 440 Hz carrier chirp-modulated tones show no signs of attentional modulation. <i>Neurosci Lett</i> 678</li> <li>• Griskova-Bulanova I, Pipinis E, Voicikas A, Koenig T (2018) Global field synchronization of 40 Hz auditory steady-state response: Does it change with attentional demands? <i>Neurosci Lett</i> 674:127–131</li> <li>• Griskova-Bulanova I, Dapsys K, Melynyte S, Voicikas A, Maciulis V, Andruskevicius S, Korostenskaja M (2018) 40 Hz auditory steady-state response in schizophrenia: Sensitivity to stimulation type (clicks versus flutter amplitude-modulated tones). <i>Neurosci Lett</i> 662:152–157.</li> <li>• Melynyte S, Pipinis E, Genyte V, Voicikas A, Rihs T, Griskova-Bulanova I (2017) 40 Hz Auditory Steady-State Response: The Impact of Handedness and Gender. <i>Brain Topogr</i> 31:1–11</li> <li>• Griskova-Bulanova I, Griksiene R, Voicikas A, Ruksenas O (2016) Go and NoGo: modulation of electrophysiological correlates by female sex steroid hormones. <i>Psychopharmacology (Berl)</i> 233:2607–2615</li> </ul>	

	<ul style="list-style-type: none"> <li>• Voicikas A, Niciute I, Ruksenas O, Griskova-Bulanova I (2016) Effect of attention on 40 Hz auditory steady-state response depends on the stimulation type: Flutter amplitude modulated tones versus clicks. <i>Neurosci Lett</i> 629:215–220</li> <li>• Ringailė-Voicik R, Naujalis JR, Voicikas A (2015) Organization of club moss gametophytes and juvenile sporophyte populations in pine forests. <i>Polish J Ecol</i> 63:467–480</li> </ul>
Participation in projects	<ul style="list-style-type: none"> <li>• Research project "Individual gamma frequency based neurofeedback"; Researcher, 2020-2022</li> <li>• Research project "40 Hz ASSR dependence on stimulus duration"; Researcher, 2020-2021</li> <li>• Research project "Brain-Computer Music Interfacing for Embodied Musical Interaction"; Researcher, 2019-2021</li> <li>• Research project "New EEG Clustering Methods for Pre-clinical and Clinical Applications" funded by Chilean funding agency Comisión Nacional de Investigación Científica y Tecnológica (CONICYT); 2018-2019</li> <li>• Institutional partnership project "State-dependent information processing: implementation of electrical neuroimaging approach in Lithuania" in collaboration with University of Geneva and University Hospital of Psychiatry Bern, CH-3-ŠMM-02/03 from the Research Council of Lithuania within the Lithuanian-Swiss programme "Research and development"; 2016</li> <li>• Research project "Treatment-resistant schizophrenia: identification of electrophysiological markers" MIP-009/2014 from the Research Council of Lithuania within the collaboration programme with USA scientists; Researcher, 2014-2016</li> <li>• PhD project "Brain steady-state response dependence on stimulation type"; 2014-2019</li> </ul>
Teaching	<ul style="list-style-type: none"> <li>• Biological data analysis and collection (BSc; 2019 to present)</li> <li>• Biological data analysis (MCs: 2020 to present)</li> <li>• Study Course "EEG experiment design and data analysis" 2019</li> </ul>
Awards	<ul style="list-style-type: none"> <li>• LMT (Research Council of Lithuania) scholarship for academic results (2017)</li> </ul>
Qualification improvement	<p>Internship:</p> <ul style="list-style-type: none"> <li>• 2016.06.02-07.01 Functional Brain Mapping Laboratory at the University of Geneva (Prof. Christoph Michel, Geneva (Switzerland))</li> </ul> <p>Courses Attended:</p> <ul style="list-style-type: none"> <li>• "EEG: Analytical Approaches and Applications"; 6-7 06 2019</li> <li>• "General competency skills training"; Vilnius, Lithuania; 17-21 10 2016</li> <li>• "Neuroimaging and fMRI data analysis – clinical and research applications"; Vilnius, Lithuania; 5-9 09 2016</li> <li>• "London SPM Courses 2016" London, UK; 16-19 04 2016</li> <li>• "EEG/ERP Topography"; Vilnius, Lithuania; 20-23 03 2016</li> <li>• "3rd Baltic-Nordic Summer School on Neuroinformatics"; Tartu, Estonia; 15-18 06 2015</li> <li>• "Cognitive neuroscience of auditory and cross-modal perception"; Kosice, Slovakia; 20-24 04 2015</li> <li>• "Practical data analysis and modeling in cognitive and clinical neuroscience"; Ghent, Belgium; 14-18 03 2014</li> <li>• "Nervous system analysis methods: EEG and ERP"; Vilnius, Lithuania; 26-28 09 2013</li> <li>• "1st Baltic-Nordic Summer School on Neuroinformatics"; Kaunas, Lithuania; 29-31 05 2013</li> </ul>

Hardware and Software Skills	<p>Computer Programming:</p> <ul style="list-style-type: none"> <li>• <a href="#">Matlab</a> , Python, R, UNIX shell scripting</li> </ul> <p>Experiment Setup:</p> <ul style="list-style-type: none"> <li>• <a href="#">E-Prime</a>, <a href="#">Experiment Builder</a>, <a href="#">PsychoPy</a>, Psychtoolbox</li> </ul> <p>Productivity Applications:</p> <ul style="list-style-type: none"> <li>• Git, Microsoft Office, Libre Office, T<sub>E</sub>X (L<sup>A</sup>T<sub>E</sub>X, BibT<sub>E</sub>X)</li> </ul> <p>Operating Systems:</p> <ul style="list-style-type: none"> <li>• Microsoft Windows, Linux</li> </ul> <p>Analog and Digital Electronics:</p> <ul style="list-style-type: none"> <li>• Arduino UNO/DUE, Raspbery PI</li> </ul>
Languages	<ul style="list-style-type: none"> <li>• Lithuanian - mother tongue</li> <li>• English -(CERF - understanding C1 , speaking B2, writing B2)</li> <li>• Russian -(CERF - understanding B2 , speaking B2, writing A1)</li> </ul>
Professional Memberships	<ul style="list-style-type: none"> <li>• <a href="#">Lithuanian Neuroscience Association</a> (2012 to present)</li> <li>• <a href="#">The International Society for Brain Electromagenetic Topography (ISBET)</a> (2016 to present)</li> <li>• <a href="#">Organisation of Human Brain Mapping (OHBM)</a> (2016 to present)</li> </ul>
Service	<ul style="list-style-type: none"> <li>• <a href="#">"10th Conference of Lithuanian Neuroscience Association (LNA)"</a>; Vilnius. Lithuania; 30-1 11-12 2018</li> <li>• <a href="#">"Nervous system analysis methods: EEG and ERP"</a>; Vilnius, Lithuania; 5-6 02 2016</li> <li>• <a href="#">"Brain Awareness Week 2015"</a> Vilnius, Lithuania;16 – 22 03 2015</li> <li>• <a href="#">"School 2013"</a>; Litexpo ;Vilnius, Lithuania 6-8 12 2016</li> <li>• <a href="#">"Spaceship Earth"</a>; Kaunas, Lithuania; 13 09 2013</li> </ul>
Other information	<ul style="list-style-type: none"> <li>• Driving license B category, 2016</li> </ul>