Curriculum Vitae
Péter Nagy

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Personal

Date and Place of Birth:	1992, Budapest, Hungary
Nationality:	Hungarian
Languages Spoken:	Hungarian, English, German

Education

2023	PhD degree Electrical Engineering
2017-2022	PhD student Budapest University of Technology and Economics Faculty of Electrical Engineering and Informatics Doctoral School of Electrical Engineering
2015-2017	M.Sc. in Biomedical Engineering Budapest University of Technology and Economics
2011-2015	B.Sc. in Electrical Engineering Budapest University of Technology and Economics

Employment

2023-	Research Fellow Research Centre for Natural Sciences Institute of Cognitive Neuroscience and Psychology Sound and Speech Perception Research Group
2023-	Assistant Professor Department of Measurement and Information Systems Budapest University of Technology and Economics
2022-2023	Research Assistant Research Centre for Natural Sciences
2022-2023	Assistant Lecturer Budapest University of Technology and Economics
2018-2019	Software Test Engineer Alten SW GmbH
2016-2017	Software Test Engineer B. Braun Medical Kft.

Honors and Awards

Innovation award of the Pro-Progressio Foundation, 2020
Josef Heim special award of the Schnell László Foundation, 2020
Josef Heim award of the Schnell László Foundation, 2019

Publications

Nagy, P., Tóth, B., Winkler, I., & Boncz, Á. (2024). The effects of spatial leakage correction on the reliability of EEG-based functional connectivity networks. Human Brain Mapping, 45(8), e26747.

Nagy, P., Sax, B., Kozák, A., Merkely, B., Osztheimer, I., & Jobbágy, Á. (2023). Automatic non-invasive blood pressure measurement in left ventricular assist device patients with a photoplethysmography assisted device. The International Journal of Artificial Organs, 46(5), 274-279.

Nagy, P., & Jobbágy, Á. (2022). Sensor fusion for the accurate non-invasive measurement of blood pressure. Measurement: Sensors, 24, 100481.

Jobbágy, Á., & Nagy, P. (2018). The effect of cuff occlusion on the pulse wave transit time from the heart to the cuff. Slovenian Medical Journal, 87(5-6), 237-248.

Bonyar, A., Nagy, P., Mayer, V., Vitéz, A., Gerecs, A., Sántha, H., & Harsányi, G. (2017). A colorimetry based, semi-automated portable sensor device for the detection of arsenic in drinking water. Sensors and Actuators B: Chemical, 251, 1042-1049.

Jobbágy, Á., Majnár, M., Tóth, L. K., & Nagy, P. (2017). HRV-based stress level assessment using very short recordings. Periodica polytechnica Electrical engineering and computer science, 61(3), 238-245.

Conference papers

Csapó, T. G., Arthur, F. V., Nagy, P., & Boncz, Á. (2023). Comparison of acoustic-to-articulatory and brain-to-articulatory mapping during speech production using ultrasound tongue imaging and EEG. In: SMM23, Workshop on Speech, Music and Mind 2023 (pp. 16-20). ISCA.

Csapó, T. G., Arthur, F. V., Nagy, P., & Boncz, Á. (2023). Towards Ultrasound Tongue Image prediction from EEG during speech production. In: 24th INTERSPEECH Conference 2023 (pp. 1164-1168).

Nagy, P., & Jobbágy, Á. (2022). A New Method to Determine Systolic Blood Pressure Indirectly Aided by Parallel Recording of ECG and PPG. In Proceedings of the 15th International Joint Conference on Biomedical Engineering Systems and Technologies (pp. 221-227). SciTePress.

Nagy, P., & Jobbágy, Á. (2020). Heart Rate Variability Calculation Using Heart Periods Measured Between Consecutive P onset Points. In European Medical and Biological Engineering Conference (pp. 613-621). Springer, Cham.

Nagy, P., & Jobbágy, Á. (2019). Accurate calculation of heart period and pulse wave transit time. In Mediterranean Conference on Medical and Biological Engineering and Computing (pp. 267-275). Springer, Cham.

Nagy, P., & Jobbágy, Á. (2019). Personalization of the oscillometric blood-pressure measurement. In World Congress on Medical Physics and Biomedical Engineering 2018 (pp. 885-888). Springer, Singapore.

Jobbágy, Á., & Nagy, P. (2017). The Effect of Occlusion with the Cuff. In EMBEC & NBC 2017 (pp. 9-12). Springer, Singapore.

Nagy, P., Bonyar, A., Sántha, H., & Harsányi, G. (2016). The effect of elevated water sample temperature on the performance of a custom-developed colorimetric arsenic sensor. Procedia Engineering, 168, 1479-1482.

Jobbágy, Á., & Nagy, P. (2015). Pulse Wave Velocity as a Function of Cuff Pressure-Extra Information About the Cardiovascular System. In World Congress on Medical Physics and Biomedical Engineering, June 7-12, 2015, Toronto, Canada (pp. 1279-1282). Springer, Cham.

Posters

Nagy, P., Kovács, P., Boncz, Á., Szalárdy, O., Baumgartner, R., Ignatiadis, K., Winkler, I. & Tóth, B. (2024). Neural Mechanisms of Timing and Anticipation in Auditory Perception. Presented at the 2024 Annual Meeting of the Society for Psychophysiological Research (SPR), October 23-26, Prague.

Nagy, P., Béres, L., Boncz, Á., & Winkler, I. (2024). Movement Synchrony and Gaze Coordination during Face-to-Face Communication. Presented at the 5th Workshop on Cognitive Neuroscience of Auditory and Cross-Modal Perception, 15-17 April, Košice.

Nagy, P., Tóth, B., Boncz, Á. & Winkler, I. (2023). Reliability of functional connectivity and person identification based on resting-state EEG. Presented at the Salzburg Mind Brain Annual Meeting (SAMBA) 2023, June 13-14.

Nagy, P., Tóth, B., Boncz, Á. & Winkler, I. (2022). Reliability of EEG resting-state networks. Presented at the Salzburg Mind Brain Annual Meeting (SAMBA) 2022, June 14-15.

Nagy, P., Tóth, B., Winkler, I., & Boncz, Á. (2021). Similarity and modular organization of resting-state EEG networks. Presented at the 5th International Conference of the European Society for Cognitive and Affective Neuroscience, June 23-26, Virtual event.

Nagy, P., Tóth, B., Winkler, I., & Boncz, Á. (2021). Reliability of EEG functional connectivity based modular network organization. Presented at the SfN Global Connectome, January 11-13, Virtual event.