

Agoston Mihalik

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About

Agoston's research focuses on the neural mechanisms of multisensory integration. He is using psychophysics, fMRI and Bayesian modeling to investigate how people perceive and adapt to their environment in the ventriloquist illusion.

Qualifications

- Medical Doctor, Semmelweis University, Hungary, 2012

Biography

Agoston studied Medicine at Semmelweis University and completed a special training module in Quantitative Modeling at Pazmany Peter Catholic University. He was also member of the Ödön Kerpel-Fronius Talent Support Program in Semmelweis University established for supporting highly talented medical students. Before his current PhD he spent seven years as a research assistant working mostly on network analysis, but was also involved in connectivity and resting state analysis of fMRI.

Doctoral research

PhD title

Learning and adaptation in audio-visual integration

Research

Research group

Computational Cognitive Neuroimaging Group

Research interests

Multisensory integration, Computational Neuroscience, Neuroimaging (fMRI)

Publications

Mihalik A, Kaposi AS, Kovacs IA, Nanasi T, Palotai R, Rak A, Szalay MS, Csermely P (2012): How creative elements help the recovery of networks after crisis: lessons from biology. In *Networks in Social Policy Problems*. B Vedres and M Scotti (ed.). Cambridge University Press, Cambridge

Mihalik A, Csermely P (2011): Heat shock partially dissociates the overlapping modules of the yeast protein-protein interaction network. *PLoS Comput Biol* 7, e1002187

Farkas IJ, Korcsmaros T, Kovacs IA, **Mihalik A**, Palotai R, Simko GI, Szalay KZ, Szalay-Beko M, Vellai T, Wang S, Csermely P (2011): Network-based tools in the identification of novel drug-targets. *Sci Signal* 4: pt3

Csermely P, Kovacs I, **Mihalik A**, Nanasi T, Rak A, Szalay M (2009): How can biological networks help our coping with crisis situations? [in Hungarian] *Magyar Tudomány* 170: 1381-1390

Kiss HJ, **Mihalik A**, Nanasi T, Ory B, Spiro Z, Soti C, Csermely P (2009): Ageing as a price of cooperation and complexity: self-organization of complex systems causes the gradual deterioration of constituent networks. *Bioessays* 31:651-664