



Jozsef Meszaros

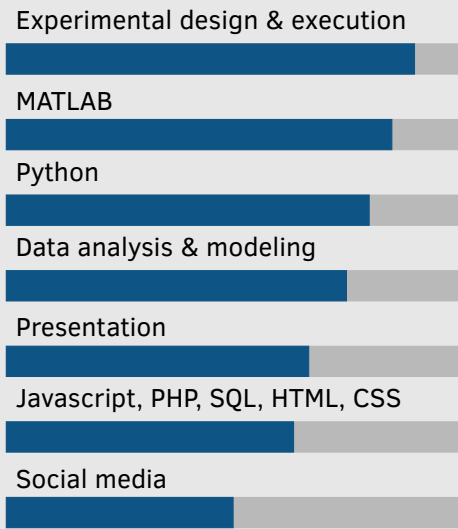
Neuroscientist

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About me

Jozsef has worked in a diversity of environments, combining an interest in succinct and clear communication with a passion for scientific inquiry. Jozsef's past experiences include collaborating with organizations that provide legal services to victims of domestic violence, generating and teaching entirely custom web-based science courses, studying neurotransmitter release and most recently, performing cutting-edge neuroscience research at the level of individual molecules.

Abilities



[The skill scale is from 0 (passing interest) to full (obsessive preoccupation).]

Current Position

Postdoctoral Research Scientist at Columbia University's Psychiatry Department working for [Jonathan Javitch](#) monitoring the movement of single molecules within cells.

Education

- 2011-2017 Ph.D. Neuroscience Columbia University
Optical characterization of dopamine release in the globus pallidus and striatum
- 2007-2010 J.D. University of Pennsylvania
Emphasis on mental health law
- 2002-2007 B.Sc. University of Maryland
Physics
- 2002-2007 B.Sc. University of Maryland
Neurobiology

Relevant Publications

- 2018 Evoked transients of pH-sensitive fluorescent false neurotransmitter reveal dopamine hot spots in the globus pallidus eLife
[Meszaros J](#), Cheung T, Erler MM, Kang UJ, Sames D, Kellendonk C, Sulzer D
- 2018 Accumbens dopamine D2 receptors increase motivation by decreasing inhibitory transmission to the ventral pallidum Nature Comm.
Gallo EF, [Meszaros J](#), Sherman JD, Chohan MO, Teboul E, Choi CS, Moore H, Javitch JA, Kellendonk C
- 2016 Fluorescent false neurotransmitter reveals functionally silent dopamine vesicle clusters in the striatum Nature Neuro.
Pereira DB, Schmitz Y, [Meszaros J](#), Merchant P, Hu G, Li S, Henke A, Lizardi-Ortiz JE, Karpowicz Jr RJ, Morgenstern TJ, Sonders MS, Kanter E, Rodriguez PC, Mosharov EV, Sames D, Sulzer D
- 2016 Decreasing striatopallidal pathway function enhances motivation by energizing the initiation of goal-directed action J. Neuro.
Poyraz FC, Holzner E, Bailey MR, [Meszaros J](#), Kenney L, Kheirbek MA, Balsam PD, and Kellendonk C
- 2016 Evidence for limited D1 and D2 receptor coexpression and colocalization within the dorsal striatum of the neonatal mouse J. Comp. Neurol.
Biezonski DK, Trifilieff P, [Meszaros J](#), Javitch JA, and Kellendonk, C
- 2015 Evidence against dopamine D1/D2 receptor heteromers Mol. Psych.
Frederick AL, Yano H, Trifilieff P, Vishwasrao HD, Biezonski D, [Meszaros J](#), Urizar E, Sibley DR, Kellendonk C, Sonntag KC, Graham DL
- 2011 Achieving peace of mind: the benefits of neurobiology evidence for battered women defendants Yale J. Law & Feminism
[Meszaros J](#)

Teaching Experience

- 2018 Neuroscience of Perception. City University of New York: Hunter (Spring)
Senior level course covering principles of computation within sensory systems.
- 2016, 2017 Citizen Science. Bard College (Winter)
Freshman level immersive science course covering the scientific method, scientific computing, and experimental design.
- 2013, 2014 Biochemistry for Pre-Med Students. Columbia University (Summer)
An enrichment course for medical school aspirants covering the biochemical aspects of neurobiological disorders.