



## Bradley Jay Edelman

Postdoctoral Research Fellow, Neurology and Neurological Sciences

### Bio

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#### PROFESSIONAL EDUCATION

- Bachelor of Science, Carnegie Mellon University (2012)
- Doctor of Philosophy, University of Minnesota Twin Cities (2018)

### Publications

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#### PUBLICATIONS

- **Noninvasive neuroimaging enhances continuous neural tracking for robotic device control** *Science Robotics*  
Edelman, B. J., Meng, J., Suma, D., Zurn, C., Nagarajan, E., Baxter, B. S., Cline, C. C., He, B.  
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- **Exploring Cognitive Flexibility With a Noninvasive BCI Using Simultaneous Steady-State Visual Evoked Potentials and Sensorimotor Rhythms.** *IEEE transactions on neural systems and rehabilitation engineering : a publication of the IEEE Engineering in Medicine and Biology Society*  
Edelman, B. J., Meng, J., Gulachek, N., Cline, C. C., He, B.  
2018; 26 (5): 936–47
- **EEG Source Imaging Enhances the Decoding of Complex Right-Hand Motor Imagery Tasks** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*  
Edelman, B. J., Baxter, B., He, B.  
2016; 63 (1): 4-14
- **Systems neuroengineering: Understanding and interacting with the brain** *Engineering*  
Edelman, B. J., Johnson, N., Sohrabpour, A., Tong, S., Thakor, N., He, B., et al  
2015; 1 (3): 292-308
- **A Study of the Effects of Electrode Number and Decoding Algorithm on Online EEG-Based BCI Behavioral Performance** *FRONTIERS IN NEUROSCIENCE*  
Meng, J., Edelman, B. J., Olsoe, J., Jacobs, G., Zhang, S., Beyko, A., He, B.  
2018; 12: 227
- **Combined rTMS and virtual reality brain-computer interface training for motor recovery after stroke** *Journal of Neural Engineering*  
Johnson, N., James, C., Edelman, B. J., Doud, A., Grande, A., Lakshminarayan, K., He, B., et al  
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- **Anodal Transcranial Direct Current Stimulation Increases Bilateral Directed Brain Connectivity during Motor-Imagery Based Brain-Computer Interface Control.** *Frontiers in neuroscience*  
Baxter, B. S., Edelman, B. J., Sohrabpour, A., He, B.  
2017; 11: 691
- **Sensorimotor Rhythm BCI with Simultaneous High Definition-Transcranial Direct Current Stimulation Alters Task Performance** *BRAIN STIMULATION*  
Baxter, B. S., Edelman, B. J., Nesbitt, N., He, B.  
2016; 9 (6): 834-841

- **Noninvasive Brain-Computer Interfaces Based on Sensorimotor Rhythms** *PROCEEDINGS OF THE IEEE*

He, B., Baxter, B., Edelman, B. J., Cline, C. C., Ye, W. W.

2015; 103 (6): 907-925

- **Prolonged cortical silent period among drug-naive subjects at ultra-high risk of psychosis** *SCHIZOPHRENIA RESEARCH*

Tang, Y., Zhang, T., Edelman, B., Zeng, B., Zhao, S., Li, C., Zhuo, K., Qian, Z., Li, H., Guo, Q., Cui, H., Zhu, Y., Jiang, et al

2014; 160 (1-3): 124-130