

## Bryce Grier

Neural Data Architect, Vice Provost and Dean of Research

### Bio

---

#### LINKS

- Google Scholar: [https://scholar.google.com/citations?user=\\_ifWbvsAAAAJ&hl=en&oi=ao](https://scholar.google.com/citations?user=_ifWbvsAAAAJ&hl=en&oi=ao)

### Publications

---

#### PUBLICATIONS

- **Transcranial Low-Intensity Focused Ultrasound Stimulation of the Visual Thalamus Produces Long-Term Depression of Thalamocortical Synapses in the Adult Visual Cortex.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*  
Mesik, L., Parkins, S., Severin, D., Grier, B. D., Ewall, G., Kotha, S., Wesselborg, C., Moreno, C., Jaoui, Y., Felder, A., Huang, B., Johnson, M. B., Harrigan, et al  
2024; 44 (11)
- **Selective plasticity of fast and slow excitatory synapses on somatostatin interneurons in adult visual cortex.** *Nature communications*  
Grier, B. D., Parkins, S., Omar, J., Lee, H. K.  
2023; 14 (1): 7165
- **Anti-Hebbian plasticity in the motor cortex promotes defensive freezing.** *Current biology : CB*  
Bai, Y., Grier, B., Geron, E.  
2023; 33 (16): 3465-3477.e5
- **Naturalistic Spike Trains Drive State-Dependent Homeostatic Plasticity in Superficial Layers of Visual Cortex.** *Frontiers in synaptic neuroscience*  
Chokshi, V., Grier, B. D., Dykman, A., Lantz, C. L., Niebur, E., Quinlan, E. M., Lee, H. K.  
2021; 13: 663282
- **Input-Specific Metaplasticity in the Visual Cortex Requires Homer1a-Mediated mGluR5 Signaling.** *Neuron*  
Chokshi, V., Gao, M., Grier, B. D., Owens, A., Wang, H., Worley, P. F., Lee, H. K.  
2019; 104 (4): 736-748.e6
- **Olfactory Sensory Activity Modulates Microglial-Neuronal Interactions during Dopaminergic Cell Loss in the Olfactory Bulb.** *Frontiers in cellular neuroscience*  
Grier, B. D., Belluscio, L., Cheetham, C. E.  
2016; 10: 178
- **Bulk regional viral injection in neonatal mice enables structural and functional interrogation of defined neuronal populations throughout targeted brain areas.** *Frontiers in neural circuits*  
Cheetham, C. E., Grier, B. D., Belluscio, L.  
2015; 9: 72