

Stanford



Elizabeth Beam

- MD Student, expected graduation Spring 2021
- Ph.D. Student in Neurosciences, admitted Autumn 2017
- MSTP Student

Bio

BIO

Ellie Beam graduated summa cum laude from Duke University in 2013 with a BS in Neuroscience and a BA in English, earning distinction for theses in both majors. Her research with Professor Scott Huettel applied network text analyses to map the semantic structure of cognitive neuroscience. Following graduation, Ellie worked for two years in the lab of Professor Randy Buckner at Harvard University, coordinating large-scale studies of affective illness and leading an independent project that related disruption in frontoparietal network connectivity to executive control impairment in young adults with subthreshold depression. She matriculated at the Stanford School of Medicine in 2015 and is pursuing a PhD in the Neurosciences through the Medical Scientist Training Program. Her research in the lab of Amit Etkin has employed machine learning techniques to identify neurophysiological subtypes of post-traumatic stress disorder. She is currently developing data-driven approaches to validating and engineering ontologies of human brain function.

STANFORD ADVISORS

- Amit Etkin, Doctoral Dissertation Advisor (AC)

Publications

PUBLICATIONS

- **Registration-free analysis of diffusion MRI tractography data across subjects through the human lifespan.** *NeuroImage*
Siless, V., Davidow, J. Y., Nielsen, J., Fan, Q., Hedden, T., Hollinshead, M., Beam, E., Vidal Bustamante, C. M., Garrad, M. C., Santillana, R., Smith, E. E., Hamadeh, A., Snyder, et al
2020: 116703
- **Mapping Rhetorical Topologies in Cognitive Neuroscience** *TOPOLOGIES AS TECHNIQUES FOR A POST-CRITICAL RHETORIC*
Jack, J. L., Appelbaum, G., Beam, E. H., Moody, J., Huettel, S. A.
Palgrave Macmillan.2017: 125–150
- **Mapping the Semantic Structure of Cognitive Neuroscience** *JOURNAL OF COGNITIVE NEUROSCIENCE*
Beam, E., Appelbaum, L. G., Jack, J., Moody, J., Huettel, S. A.
2014; 26 (9): 1949-1965