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Engineering Systems-Level Sensorimotor Plasticity Through Co-Adaptive Neural Interfaces

Dr. Orsborn is a Clare Boothe Luce Assistant Professor in the departments of Electrical & Computer Engineering and Bioengineering at the University of Washington. Her research explores sensorimotor plasticity in brain-computer interfaces and how plasticity is influenced by the algorithms used. Her long-term goal is to develop "smart" algorithms that can shape plasticity to improve devices to restore and rehabilitate motor function after injury. She completed her Ph.D. at the UC Berkeley/UCSF Joint Graduate Program in Bioengineering and her postdoctoral training at NYU's Center for Neural Science. Her work has been supported by a range of governmental (NSF, the American Heart Association, NIH) and philanthropic (L'Oreal USA, Simons Foundation) organizations, along with industry (Google, Meta).