

## Shanna Murray, PhD

PATENT AGENT

617-248-5242

Dr. Shanna Murray assists Choate's life sciences clients by utilizing her background in neuroscience to help with the preparation and prosecution of patent applications, as well as freedom-to-operate and patentability analyses.

Prior to joining Choate, Shanna received her PhD in Neuroscience from Yale University. While at Yale, she worked across the labs of Hyojung Seo and Daeyeol Lee, where she studied the spiking activity of prefrontal neurons that encode short-term memory for learning. In her thesis work, she investigated the neural basis of temporal credit assignment in a non-human primate model using a reinforcement learning computational framework and extracellular electrophysiology techniques, including high channel count silicon probes.

Shanna received her bachelor of arts in Cognitive Science with a Neuroscience concentration from Johns Hopkins University. Following her undergraduate degree, she worked as a post-baccalaureate research fellow at the National Institute for Mental Health in the Section on Integrative Neuroimaging. In this role, she applied computational methods to investigate human adolescent neurodevelopment and the neural basis of reward processing in patients with schizophrenia.

Shanna complements her technical expertise with experience in scientific communication and outreach. At Yale, she participated in outreach through the Yale Interdepartmental Neuroscience Program, Yale Pathways to Science, and Yale Open Labs. While working in the DC area, she participated in science policy forums to promote the use of neuroscientific evidence in juvenile sentencing and drug policymaking. She also attended the Weill Cornell 'Law and Neuroscience' Summer Institute, where she collaborated with scientists of various backgrounds, explored cuttingedge topics at the intersection of law and neuroscience, and synthesized scientific developments for debate on the role of brain imaging data in the courtroom.

## Admissions

· U.S. Patent & Trademark Office

## Focus Areas Intellectual Property IP Counseling