

## Gayathri Ranganathan

### Senior Patent Technical Advisor



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Reston

Intellectual Property

Patent Counseling and Prosecution

Patent Counseling and Prosecution – Technology

Patent Counseling and Prosecution – Life Sciences

Intellectual Property Litigation

Dr. Gayathri Ranganathan focuses on client counseling and patent procurement in bio-related interdisciplinary arts. Her practice covers a wide range of technologies, including optics, biomedical imaging, machine learning, computer vision, prosthetic devices, brain-computer and other human-machine interfaces, neural interfaces, and scientific analytical instruments. She has broad experience drafting patent applications, prosecuting US and foreign applications, invalidity claim charting, and conducting patentability searches, freedom-to-operate studies, and due diligence analyses.

Gayathri has hands-on experience with optics, optoelectronics, designing and developing brain-machine interfaces, and using machine learning tools for data-driven scientific discovery.

Gayathri has been granted limited recognition by the US Patent and Trademark Office to prepare and prosecute patent applications under the supervision of a registered practitioner.

Previously, Gayathri was a post-doctoral fellow of the Howard Hughes Medical Institute at the Janelia Research Campus, where she worked on sensory-motor learning behavior in mammals using two-photon microscopy and electrophysiological techniques. She conducted her doctoral studies at the Institute for Neuroscience at the University of Texas at Austin, where she built high-speed microscopes to study activity dynamics in biological neural networks. She holds a bachelor's degree in biotechnology from Vellore Institute of Technology, India.

## Education

Janelia Research Campus, Howard Hughes Medical Institute  
Post-Doctoral Associate, 2012-2017

University of Texas at Austin  
PhD, 2011

Vellore Institute of Technology  
B.Tech, 2005

## Memberships & Affiliations

Society for Neuroscience