



## Karan P. Singh

Ph.D. Student in Electrical Engineering, admitted Autumn 2023

### Bio

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#### BIO

I am an incoming electrical engineering Ph.D. student and full-time post-baccalaureate researcher, currently advised by Dr. Kim Butts Pauly in the Department of Radiology. My research will be funded by the NSF Graduate Research Fellowship.

My lab works primarily in transcranial ultrasound neuromodulation, a non-invasive therapeutic modality with the potential to cure neurological diseases such as epilepsy, Alzheimer's, and even addiction. My primary focus at the moment is using machine learning, particularly sequence models, to improve therapy outcomes and efficiency.

Previously, I studied electrical engineering at Cal Poly SLO and was the youngest engineering graduate in the school's history. There, I worked with Dr. Benjamin Hawkins on microfluidics research examining the electrowetting effect.

Outside of academia, I enjoy playing the piano, badminton, working out, and cooking! I am also the co-founder and co-president of the Stanford Piano Society.

#### LINKS

- Personal Website: <https://karanps.com>
- LinkedIn: <https://www.linkedin.com/in/karanps/>