



## Mohit Singhala

Postdoctoral Scholar, Bioengineering

### Bio

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#### BIO

Mohit is the Global Innovation Fellow at Impact1, Stanford Biodesign. He comes from India, where he completed his undergraduate training in mechanical engineering.

Mohit leads research at Stanford and Johns Hopkins that leverages robotics principles to understand and address complex systems-level healthcare needs of underserved populations. He is currently developing Maitri, a system that aims to bring the promise of digital health & AI to prenatal screening of mothers seeking care at community health centers of India- combining implementation science and design thinking.

He completed his PhD at Johns Hopkins, where he studied haptics and medical robotics. He built custom electromechanical testbeds to quantitatively assess how humans perceive touch. His work on haptic perception is being used to develop novel therapies for children on the spectrum for Autism and for quantitative measurement of pain in patients suffering from peripheral neuropathy.

He concurrently served as an innovator-in-residence at Johns Hopkins CBID, where he previously earned his MSE in bioengineering innovation and design. He has invented several patented and patent-pending medical devices, performed primary ethnography in multiple countries, and received funding from organizations such as the Gates Foundation. He continues his global health collaborations in India, Uganda and Zambia, where has invented several medical technologies including a mosquito trap, currently being tested in East Africa to accelerate malaria research through large scale capture of different mosquito species.

Mohit also played a crucial role in Hopkins' COVID-19 pandemic response, most notably helping devise an emergency dialysate production method that was adopted by multiple healthcare facilities.

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Global Health Postdoctoral Affiliate, Center for Innovation in Global Health (CIGH) (2023 - present)

#### STANFORD ADVISORS

- Josh Makower, Postdoctoral Faculty Sponsor
- James Wall, Postdoctoral Research Mentor

#### LINKS

- LinkedIn: <https://www.linkedin.com/in/mohitsinghala/>