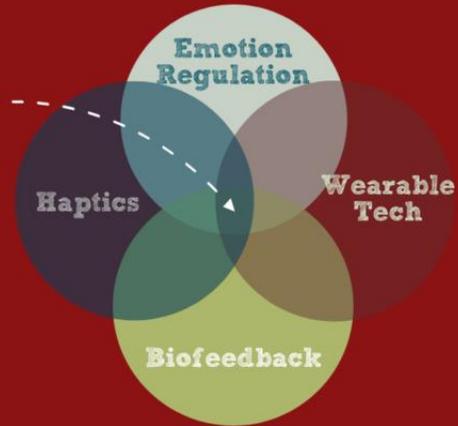Welcome to the Wehab Lab!

An interdisciplinary lab, the Wehab Lab aims to bridge the fields of haptics, emotion regulation, wearable technology, and biofeedback. Under the direction of Dr. Pardis Miri, we investigate the use of technology for affect regulation.

Research Assistant Position at Wehab Lab

Parent Lab: Stanford Psychophysiology Laboratory (SPL) **Website**: https://www.spl.stanford.edu
WEHAB Lab: https://wehab.stanford.edu/ **Supervising Researcher**: Pardis Miri **Contact**: parism@stanford.edu

What do you do at Wehab Lab? Our projects look at new ways to facilitate affect regulation via haptic technology. Affect regulation refers to things that we do to get a hold of our unwanted emotions, stress, and mood. We build and rigorously evaluate technologies to facilitate affect regulation. We envision a future in which a mental health clinician could choose between various technological interventions, selecting the ones that are more likely to be suitable for a patient, given knowledge of that patient. Our work provides a unique opportunity to deepen your understanding of research that bridges the gap between psychology, computer science, and product design.

Current Projects Include:

1. Design and implementation of a haptic breathing pacer (HBP)
2. Explore placement, pattern, and personalization of HBP
3. Conduct efficacy testing of a HBP
4. Investigate the role of individual differences in benefiting from HBP
5. Investigate efficacy of HBP for neurodiverse population of autism spectrum disorder population

Who is an ideal candidate? If you have computer science, chemical engineering, mechanical engineering, electrical engineering, or psychology background, this lab is the right place for you. If you don't have any of these backgrounds but you are eager to learn fast and to dedicate time, this is still the right lab for you. We recommend contacting our current or former lab research assistants to get a better perspective of our lab and see our team members page on wehab.stanford.edu website for more information.

At the moment, we are looking for individuals with app development (preferably Swift iOS programming) industrial design background (3D modeling experience with AutoCAD or Solidworks), AI (have taken grad

level courses in ML such as CS224, CS224N, etc..). But these needs are subject to change as projects move forward. So, don't hesitate to reach out to us.

How do I get compensated? Work-study, volunteer, or course-credit.

What would be my duties and time commitment? Depending on your position, your duties would vary. For example, with a psychology background, some of your duties would include running subjects, searching and summarizing research literature, data management and organization, conducting and transcribing interviews, assisting with data analysis, and research paper write-up.

Qualifications and Expectations

1. Highly motivated, eager-to-learn with a long-term interest in research related to psychology, neuroscience, computer science, or other health/social sciences.
2. Ability to work independently and attention to detail are a must! There will be a significant amount of independent tasks, and having a willingness to troubleshoot issues that arise is important.
3. Professional attitude, teamwork and communication skills, time management, patience, and reliability
4. Statistics, programming, machine learning background are a plus.

How do I apply? Please send an email to me, Pardis Miri (parism@stanford.edu), and briefly detail your motivation and qualifications for becoming an RA for this project. Additionally please attach a resume/CV, and include your availability (preferred number of hours/week and how long you can commit to volunteering in the lab). I then would ask for a letter of support from one to two faculties that you have worked with before.