Stanford



Pardis Miri

Postdoctoral Scholar, Genetics

Bio

BIO

Pardis Miri, PhD, is a postdoctoral fellow at Stanford University where she is focused on building technology to facilitate mental well being. With a PhD in computer science and years of training in area of affective science (under the supervision of Professor James J. Gross), Pardis has assembled a unique team (see http://wehab.stanford.edu) to not only run clinical studies to evaluate their efficacy in changing emotion, mood, and stress but also build product-ready technology.

Pardis is the principal investigator of a large multi-disciplinary project (FAR) to design, build, and evaluate a wearable system tailored to the needs of children with emotion dysregulation, especially children diagnosed with autism spectrum disorder. FAR aims to empower them to manage their problem behaviors in a more adaptive way. The FAR project involves collaborations between the departments of Computer Science, Psychology, Mechanical Engineering, and the School of Medicine at Stanford University.

Pardis is being advised by Professors Micheal Snyder, Professor Keith Marzullo at the University of Maryland iSchool, whose research is on distributed systems, and by Professor James Gross, whose research underlies much of what we now know about emotion regulation. She is also working with Professor Antonio Hardan of the Stanford School of Medicine, whose research is on children with Autism Spectrum Disorder.

HONORS AND AWARDS

- EAGER National Science Foundation Grant., Systems for Assisting in Emotion Regulation in the Wild. (2016-2020)
- Facilitating Affect Regulation in Youth with Autism Spectrum Disorder, Stanford eWear Seed Grant (2020-2021)

PROGRAM AFFILIATIONS

• SPARK at Stanford

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California Santa Cruz (2019)
- Postdoc, Stanford University, Psychology and Computer Science Supervisors: James Gross and Keith Marzullo (2022)
- PhD, University of California, Santa Cruz, Computer Science, HCI Supervisors: Katherine Isbister, James Gross, and Keith Marzullo (2019)
- MS, University of California, San Diego, Computer Science, Systems and Networking Supervisors: Keith Marzullo and Amin Vahdat (2013)
- BS, Amirkabir University of Technology, Tehran, Iran , Computer Engineering

STANFORD ADVISORS

Michael Snyder, Postdoctoral Faculty Sponsor

PATENTS

- Pardis Miri; Robert Flory; Keith Marzullo; James Gross. "United States Patent S19-525 62/972,610 (S31-06632.PRO) Personalizable, Inconspicuous Vibrotactile Breathing Pacer", Stanford University, Feb 10, 2020
- Pardis Miri; Pankaj Garg; Benjamin Schultz; Sandeep Kishan Singhal; Madhan Sivakumar. "United States Patent 8806005 Cross-machine event log correlation", Microsoft Inc, Oct 8, 0179

LINKS

- Google Scholar: https://scholar.google.com/citations?user=wqIG4Q4AAAJ&hl=en
- My Lab: http://wehab.stanford.edu

Research & Scholarship

PROJECTS

Design, Engineer, and Evaluate Technologies to Facilitate Affect Regulation - Stanford University (2016 - 2022)

LAB AFFILIATIONS

- Michael Snyder, Snyder Lab (8/1/2023)
- James Gross, SPL (10/9/2016 - 8/1/2023)

Publications

PUBLICATIONS

• FAR: End-to-End Vibrotactile Distributed System Designed to Facilitate Affect Regulation in Children Diagnosed with Autism Spectrum Disorder Through Slow Breathing

Miri, P., Arora, M., Malhotra, A., Flory, R., Hu, S., Lowber, A., Goyal, I., Nguyen, J., Hegarty, J., Kohn, M., Schneider, D., Culbertson, H., Yamins, et al ASSOC COMPUTING MACHINERY.2022

• Evaluating a Personalizable, Inconspicuous Vibrotactile(PIV) Breathing Pacer for In-the-Moment Affect Regulation CHI Conference on Human Factors in Computing Systems

Miri, P., Jusuf, E., Uusberg, A., Margarit, H., Flory, R., Isbister, K., Marzullo, K., Gross, J. J. 2020: 13

• PIV: Placement, Pattern, and Personalization of an Inconspicuous Vibrotactile Breathing Pacer ACM TRANSACTIONS ON COMPUTER-HUMAN INTERACTION

Miri, P., Flory, R., Uusberg, A., Culbertson, H., Harvey, R. H., Kelman, A., Peper, D., Gross, J. J., Isbister, K., Marzullo, K. 2020; 27 (1)

- Using the Neuroscience of Fear Extinction for Anxiety Reduction: Study Design, Aims, and Preliminary Data Ball, T., Miri, P., Williams, L.
 NATURE PUBLISHING GROUP.2019: 267–68
- PortLand: A Scalable Fault-Tolerant Layer 2 Data Center Network Fabric
 Mysore, R., Pamboris, A., Farrington, N., Huang, N., Miri, P., Radhakrishnan, S., Subramanya, V., Vandat, A., ACM
 ASSOC COMPUTING MACHINERY.2009: 39–50